

COLOR & IRREGULAR MARKING

DATABOOK

# SEMICONDUCTOR COMPONENTS COLOR CODES AND IRREGULAR MARKING

- 16000 color and irregular marking codes
- Diodes
- Transistors
- Integrated circuits
- Marking style
- Conventional case drawing
- Pinout
- Manufacturers



2024-2025 EDITION



<http://www.turuta.md>

ELECTRONICS COMPONENTS

**Bianca Turuta Eugeniu Turuta Victoria Turuta**

**SEMICONDUCTOR COMPONENTS  
COLOR CODES  
AND IRREGULAR MARKING  
  
DATABOOK**

**Chisinau, Toronto, 2024-2025**  
*<http://www.turuta.md>*



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# Abbreviations



In the following tables sections the active and passive electronic components - irrelevant as to whether it is dealing with transistors, diodes, integrated circuits etc. are placed in separate tables according to numbers of terminals and (or) type of cases and are listed in alpha-numeric order by marking color name or irregular code marking.

## Column "Type"

The type designations correspond to those of the respective manufacturer documentations.

## Column "Function"

Short definition of the active and passive electronic components.

Used abbreviations:

C-diode	Capacitance diode
CPE	Circuit Protector Element
DC/DC-IC	DC/DC voltage converter integrated circuit
Diac	Diode for alternating current
Fuse	Passive overcurrent protection element
LVR-IC	Linear voltage regulator integrated circuit
MMIC	Monolithic Microwave Integrated Circuit
-MOSFET	Metal-Oxide-Semiconductor FET
n-	n-channel junction transistor
p-	p-channel junction transistor
PIN-diode	Diode with a wide, undoped intrinsic semiconductor region
Si-diode	Silicon diode
Si-npn	Silicon npn transistor
Si-npn-Digi	Silicon npn "digital" transistor
Si-pnp	Silicon pnp transistor
Si-pnp-Digi	Silicon pnp "digital" transistor
Si-stabistor	Silicon stabistor
SIDAC	Silicon bilateral voltage triggered switch
Tdet-IC	Thermal detector integrated circuit
Tr-el	Trigger element
Vdet-IC	Voltage Detector integrated circuit
Vref-IC	Voltage Reference integrated circuit
Z-diode	Zener diode

## Column "Short description"

Short data or description of function of each type.

Used abbreviations:

Adj.	Adjust, adjustable
AF	Audio Frequency
AM	Amplitude Modulation (AM range)
Amp	Amplifier/Attenuator
Aval	Avalanche
Disc.	Internal CL discharge
BTL	Bridge Tied Loads
Buff	Buffer
CATV	Broad band cable amplifier
+CE	Active HIGH Chip Enable
-CE	Active LOW Chip Enable
CL	Internal CL discharge resistor
Contr	Controlled
Conv	Converter
Det	Detector
DG	Dual Gate
Diff	Differential
Dr, Drv	Driver
EN	Enable
Ext.	External
FM	Frequency Modulation (FM range)
GaAs	Gallium arsenide
GP	General Purpose Applications
HF	High Frequency
H-Free	Halogen-free
Hi-sp	High-speed
HV	High Voltage
LDO	Low drop voltage
L-free	Lead-free
LN	Low Noise
LogL	Logic Level (Uth > 0.8...2V)
Lo-sat	Low collector-emitter saturation voltage
Mix	Mixer

MR	Manual Reset
OCL	Output Current Limiter
ODO	Open Drain Output
OCO	Open Collector Output
OVIn	Over Voltage Rest Input (negative)
OVP	Over Voltage Protection
Osc	Oscillator
Out	Output
OV	Latched OverVoltage function
PA	Power Amplifier
Pb-free	Plumb free
PCA	Pulse Current Amplitude modulation
PDR	Internal pull-down resistor
PFM	Pulse-frequency modulation
Pow	Power
PPO	Push-Pull Output
PSM	Pulse-skip modulation
PUR	Internal pull-up resistor
PWM	Pulse-width modulation
Rdt	Reset delay time
Rectif.	Rectifier
Reg.	Regulated
Res.	Resistor
Reset-Pr.	Reset-Protection
RF	Radio Frequency applications
Rin	Input resistance
SBD	Schottky Barrier Diode
SBR	Schottky Barrier Rectifier Diode
SS	Soft start
St-dwn	Step-down
St-up	Step-up
Sw.	Switching
T-MOS	Trench-FET MOSFET
Tun	Tuner
U-Speed	Ultra-speed
UHF	RF applications (>250 MHz)
ULN	Ultra Low-Noise
VCO	Voltage controlled oscillator
VDet	Voltage Detector
VHF	RF applications (100...250MHz)
VFM	Voltage-Frequency Modulation
Vid	Video output stages
V-MOS	Vertical Metal Oxide Semiconductor
VR	Voltage Regulator
WB	Wide Band
uPower	Micro Power

**Column "Style"** "Style" (uppercase placement of the SMD-code and additional information drawing). All styles drawings are placed in the section 8.

## Column "Atr"

Additional SMD-codes attribute such as subscript bar, superscript bar, reverse symbol and other (section 9).

## Column "A.d."

Additional information such as year, month, week or lot number designation (section 11).

**Column "Pin"** Related conventional case drawing (section 6 and pinout assignment (from table, section 7). Example: 28dc4-conventional case drawing 28 (section 6) and pinout assignment dc4 (section 7).

**Column "Sch"** Sample schematic connection for some elements (ICs). All sample schematic connection drawings are placed in the section 10.

## Column "Mnf"

The name of the manufacturer are abbreviated (to save space). The complete name, logos, and URL of each manufacturer is listed alphabetically on section 12.

**SECTION 1**  
**MELF case semiconductor components**  
**2-band color code**



	Case color	Cathode band color	1-Band color	Type	Function	Short description	Case	Pinout	Mnf
	black	green	brown	<b>BYM07-300</b>	Si-diode	Rectif, U-fast, 300V, 500mA, Vf<1.35V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	brown	<b>EGL34F</b>	Si-diode	Rectif, U-fast, 300V, 500mA, Vf<1.35V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	brown	<b>BYM12-300</b>	Si-diode	Rectif, U-fast, 300V, 1A, Vf<1.25V(1A), 50ns, 15pF	DO-213AB	15d	Vs
	black	green	brown	<b>EGL41F</b>	Si-diode	Rectif, U-fast, 300V, 1A, Vf<1.25V(1A) 50ns, 15pF	DO-213AB	15d	Vs
	black	green	grey	<b>BYM07-050</b>	Si-diode	Rectif, U-fast, 50V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	grey	<b>EGL34A</b>	Si-diode	Rectif, U-fast, 50V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	grey	<b>BYM12-50</b>	Si-diode	Rectif, U-fast, 50V, 1A, Vf<1V(1A), 50ns, 15pF	DO-213AB	15d	Vs
	black	green	grey	<b>EGL41A</b>	Si-diode	Rectif, U-fast, 50V, 1A, Vf<1V(1A) 50ns, 15pF	DO-213AB	15d	Vs
	black	green	orange	<b>BYM07-200</b>	Si-diode	Rectif, U-fast, 200V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	orange	<b>EGL34D</b>	Si-diode	Rectif, U-fast, 200V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	orange	<b>BYM12-200</b>	Si-diode	Rectif, U-fast, 200V, 1A, Vf<1V(1A), 50ns, 15pF	DO-213AB	15d	Vs
	black	green	orange	<b>EGL41D</b>	Si-diode	Rectif, U-fast, 200V, 1A, Vf<1V(1A) 50ns, 15pF	DO-213AB	15d	Vs
	black	green	pink	<b>BYM07-150</b>	Si-diode	Rectif, U-fast, 150V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	pink	<b>EGL34C</b>	Si-diode	Rectif, U-fast, 150V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	pink	<b>BYM12-150</b>	Si-diode	Rectif, U-fast, 150V, 1A, Vf<1V(1A), 50ns, 15pF	DO-213AB	15d	Vs
	black	green	pink	<b>EGL41C</b>	Si-diode	Rectif, U-fast, 150V, 1A, Vf<1V(1A) 50ns, 15pF	DO-213AB	15d	Vs
	black	green	red	<b>BYM07-100</b>	Si-diode	Rectif, U-fast, 100V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	red	<b>EGL34B</b>	Si-diode	Rectif, U-fast, 100V, 500mA, Vf<1.25V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	red	<b>BYM12-100</b>	Si-diode	Rectif, U-fast, 100V, 1A, Vf<1V(1A), 50ns, 15pF	DO-213AB	15d	Vs
	black	green	red	<b>EGL41B</b>	Si-diode	Rectif, U-fast, 100V, 1A, Vf<1V(1A) 50ns, 15pF	DO-213AB	15d	Vs
	black	green	yellow	<b>BYM07-400</b>	Si-diode	Rectif, U-fast, 400V, 500mA, Vf<1.35V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	yellow	<b>EGL34G</b>	Si-diode	Rectif, U-fast, 400V, 500mA, Vf<1.35V(500mA), 50ns, 7pF	DO-213AA	15d	Vs
	black	green	yellow	<b>BYM12-400</b>	Si-diode	Rectif, U-fast, 400V, 1A, Vf<1.25V(1A), 50ns, 15pF	DO-213AB	15d	Vs
	black	green	yellow	<b>EGL41G</b>	Si-diode	Rectif, U-fast, 400V, 1A, Vf<1.25V(1A) 50ns, 15pF	DO-213AB	15d	Vs
	black	orange	green	<b>BYM13-60</b>	Si-diode	SBD Rectif, 60V, 1A, Vf<0.7V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	green	<b>SGL41-60</b>	Si-diode	SBD Rectif, 60V, 1A, Vf<0.7V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	grey	<b>BYM13-20</b>	Si-diode	SBD Rectif, 20V, 1A, Vf<0.5V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	grey	<b>SGL41-20</b>	Si-diode	SBD Rectif, 20V, 1A, Vf<0.5V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	orange	<b>BYM13-40</b>	Si-diode	SBD Rectif, 40V, 1A, Vf<0.5V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	orange	<b>SGL41-40</b>	Si-diode	SBD Rectif, 40V, 1A, Vf<0.5V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	red	<b>BYM13-30</b>	Si-diode	SBD Rectif, 30V, 1A, Vf<0.5V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	red	<b>SGL41-30</b>	Si-diode	SBD Rectif, 30V, 1A, Vf<0.5V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	yellow	<b>BYM13-50</b>	Si-diode	SBD Rectif, 50V, 1A, Vf<0.7V(1A), 80pF	DO-213AB	15d	Vs
	black	orange	yellow	<b>SGL41-50</b>	Si-diode	SBD Rectif, 50V, 1A, Vf<0.7V(1A), 80pF	DO-213AB	15d	Vs
	black	red	blue	<b>BYM11-800</b>	Si-diode	Fast Rectif., 800V, 1A, Vf<1.3V(1A), 500ns, 15pF	DO-213AB	15d	Vs
	black	red	blue	<b>RGL41K</b>	Si-diode	Fast Rectif., 800V, 1A, Vf<1.3V(1A), 500ns, 15pF	DO-213AB	15d	Vs

**SECTION 2**

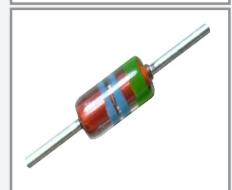
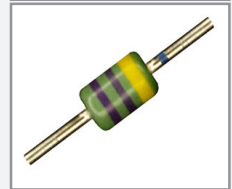
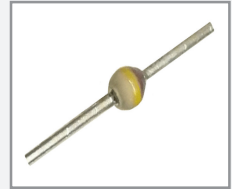
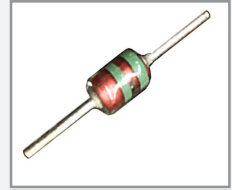
**MELF case semiconductor components  
3-band color code**



	Case color	Cathode band color	1-Band color	2-Band color	Type	Function	Short description	Case	Pinout	Mnf
	tomato	black	blue	green	<b>RLZ3.3B</b>	Zener diode	3.32..3.53V, Izt=20mA, Zzt=70Ω, 500mW	LL-34	15d	Rhm
	tomato	black	blue	green	<b>RLZ5226B</b>	Zener diode	3.14..3.47V, IZ=20mA, Zz=28Ω, 500mW	LL-34	15d	Rhm
	tomato	black	blue	yellow	<b>RLZ3.3A</b>	Zener diode	3.16..3.38V, Izt=20mA, Zzt=70Ω, 500mW	LL-34	15d	Rhm
	tomato	black	brown	green	<b>RLZ2.0B</b>	Zener diode	2.02..2.2V, Izt=20mA, Zzt=140Ω, 500mW	LL-34	15d	Rhm
	tomato	black	brown	green	<b>RLZ5221B</b>	Zener diode	2.28..2.52V, IZ=20mA, Zz=30Ω, 500mW	LL-34	15d	Rhm
	tomato	black	brown	yellow	<b>RLZ2.0A</b>	Zener diode	1.88..2.1V, Izt=20mA, Zzt=140Ω, 500mW	LL-34	15d	Rhm
	tomato	black	green	dark blue	<b>CCLM3500</b>	Si-diode	Current-limiting, 3.2V, 3.0..4.1mA	SOD-80	15d	Cen
	tomato	black	green	green	<b>CCLM2000</b>	Si-diode	Current-limiting, 2.3V, 1.68..2.32mA	SOD-80	15d	Cen
	tomato	black	green	green	<b>RLZ3.0B</b>	Zener diode	3.01..3.22V, Izt=20mA, Zzt=80Ω, 500mW	LL-34	15d	Rhm
	tomato	black	green	green	<b>RLZ5225B</b>	Zener diode	2.85..3.15V, IZ=20mA, Zz=29Ω, 500mW	LL-34	15d	Rhm
	tomato	black	green	light blue	<b>CCLM2700</b>	Si-diode	Current-limiting, 2.7V, 2.28..3.1mA	SOD-80	15d	Cen
	tomato	black	green	orange	<b>CCLM1500</b>	Si-diode	Current-limiting, 2.0V, 1.28..1.72mA	SOD-80	15d	Cen
	tomato	black	green	pink	<b>CCLM1000</b>	Si-diode	Current-limiting, 1.7V, 0.88..1.32mA	SOD-80	15d	Cen
	tomato	black	green	violet	<b>CCLM4500</b>	Si-diode	Current-limiting, 3.7V, 3.90..5.10mA	SOD-80	15d	Cen
	tomato	black	green	white	<b>CCLM5750</b>	Si-diode	Current-limiting, 4.5V, 5.0..6.5mA	SOD-80	15d	Cen
	tomato	black	green	yellow	<b>CCLHM080</b>	Si-diode	Current-limiting, 3.1V, 8.2mA	SOD-80	15d	Cen
	tomato	black	green	yellow	<b>RLZ3.0A</b>	Zener diode	2.85..3.07V, Izt=20mA, Zzt=80Ω, 500mW	LL-34	15d	Rhm
	tomato	black	grey	green	<b>RLZ3.9B</b>	Zener diode	3.89..4.16V, Izt=20mA, Zzt=50Ω, 500mW	LL-34	15d	Rhm
	tomato	black	grey	green	<b>RLZ5228B</b>	Zener diode	3.71..4.10V, IZ=20mA, Zz=23Ω, 500mW	LL-34	15d	Rhm
	tomato	black	grey	yellow	<b>RLZ3.9A</b>	Zener diode	3.74..4.01V, Izt=20mA, Zzt=50Ω, 500mW	LL-34	15d	Rhm
	tomato	black	light blue	blue	<b>F-701</b>	Si-stabistor	10V, Ip=0.6..0.92mA	LLD	15d	Set
	tomato	black	light blue	dark blue	<b>CCLM0750</b>	Si-diode	Current-limiting, 1.4V, 0.6..0.92mA	SOD-80	15d	Cen
	tomato	black	light blue	green	<b>CCLM0500</b>	Si-diode	Current-limiting, 1.1V, 0.4..0.63mA	SOD-80	15d	Cen
	tomato	black	light blue	orange	<b>CCLM0300</b>	Si-diode	Current-limiting, 0.8V, 0.2..0.42mA	SOD-80	15d	Cen
	tomato	black	light blue	orange	<b>F-301</b>	Si-stabistor	10V, Ip=0.2..0.42mA	LLD	15d	Set
	tomato	black	light blue	pink	<b>CCLM0130</b>	Si-diode	Current-limiting, 0.6V, 0.05..0.21mA	SOD-80	15d	Cen
	tomato	black	light blue	pink	<b>F-101</b>	Si-stabistor	10V, Ip=0.05..0.21mA	LLD	15d	Set
	tomato	black	light blue	white	<b>CCLM0035</b>	Si-diode	Current-limiting, 0.4V, 0.01..0.06mA	SOD-80	15d	Cen
	tomato	black	light blue	white	<b>F-101L</b>	Si-stabistor	10V, Ip=0.01..0.06mA	LLD	15d	Set
	tomato	black	light blue	yellow green	<b>F-501</b>	Si-stabistor	10V, Ip=0.4..0.63mA	LLD	15d	Set
	tomato	black	orange	green	<b>RLZ2.4B</b>	Zener diode	2.43..2.63V, Izt=20mA, Zzt=100Ω, 500mW	LL-34	15d	Rhm
	tomato	black	orange	green	<b>RLZ5223B</b>	Zener diode	2.57..2.84V, IZ=20mA, Zz=30Ω, 500mW	LL-34	15d	Rhm
	tomato	black	orange	light blue	<b>CCLHM150</b>	Si-diode	Current-limiting, 4.3V, 15mA	SOD-80	15d	Cen
	tomato	black	orange	light blue	<b>F-153</b>	Si-stabistor	10V, Ip=12.0..18.0mA	LLD	15d	Set
	tomato	black	orange	pink	<b>CCLHM100</b>	Si-diode	Current-limiting, 3.5V, 10mA	SOD-80	15d	Cen
	tomato	black	orange	pink	<b>F-103</b>	Si-stabistor	10V, Ip=8.0..12.0mA	LLD	15d	Set



**SECTION 3**  
**Axial case semiconductor components**  
**color code marking**



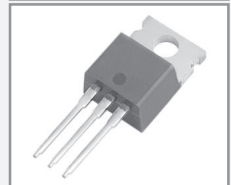
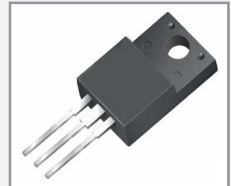
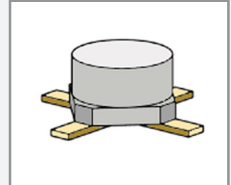
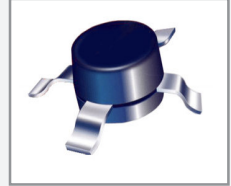
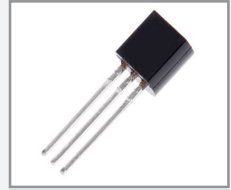
	Case color	Cathode band color	1-Band color	2-Band color	3-Band color	Type	Function	Short description	Case	Pinout	Mnf
	beige	orange	brown	-	-	<b>1N4531</b>	Si-diode	GP, 75V, 200mA, Vf<1V(10mA), 4ns, 4pF	DO-34	99d	Phi
	beige	orange	brown	blue	-	<b>BA316</b>	Si-diode	GP, 10V, 100mA, Vf<1.1V(100mA), <4ns, 3pF	DO-35	99d	Phi
	beige	orange	brown	green	-	<b>BA315</b>	Si-stabistor	GP, 225mA, Vf<0.98V(100mA), 3pF	DO-35	99d	Phi
	beige	orange	brown	grey	-	<b>BA318</b>	Si-diode	GP, 50V, 100mA, Vf<1.1V(100mA), <4ns, 3pF	DO-35	99d	Phi
	beige	orange	brown	violet	-	<b>BA317</b>	Si-diode	GP, 30V, 100mA, Vf<1.1V(100mA), <4ns, 3pF	DO-35	99d	Phi
	beige	orange	brown	yellow	-	<b>BA314</b>	Si-stabistor	GP, 250mA, Vf<0.92V(100mA), 140pF	DO-35	99d	Phi
	beige	orange	red	-	-	<b>1N4532</b>	Si-diode	GP, 75V, 200mA, Vf<1V(10mA), 4ns, 2pF	DO-34	99d	Phi
	beige	red	brown	blue	-	<b>BA216</b>	Si-stabistor	GP, 10V, 75mA, Vf<0.8V(3mA), <4ns, 3pF	SOD-17	99d	Phi
	beige	red	brown	grey	-	<b>BA218</b>	Si-diode	GP, Sw, 50V, 75mA, Vf<1.5V(50mA), <4ns, 3pF	SOD-17	99d	Phi
	beige	red	brown	violet	-	<b>BA217</b>	Si-diode	GP, Sw, 30V, 75mA, Vf<1.5V(50mA), <4ns, 3pF	SOD-17	99d	Phi
	beige	red	brown	white	-	<b>BA219</b>	Si-diode	GP, Sw, 100V, 100mA, Vf<1.4V(100mA), <120ns, 5pF	SOD-17	99d	Phi
	beige	red	grey	brown	-	<b>BA281</b>	Si-diode	Ratio Detector, 50V, 200mA, Vf<1V(100mA), 1.2pF	DO-35	99d	Phi
	beige	red	red	black	-	<b>BA221</b>	Si-diode	GP, 30V, 200mA, Vf<1.05V(200mA), <4ns, 2.5pF	DO-35	99d	Phi
	beige	red	red	brown	-	<b>BA220</b>	Si-diode	GP, 30V, 200mA, Vf<0.95V(100mA), <4ns, 2.5pF	DO-35	99d	Phi
	beige	red	red	orange	-	<b>BA223</b>	Si-diode	AM-Band-Sw, 20V, 50mA, Vf<1V(50mA), 3.5pF	DO-35	99d	Phi
	beige	red	red	red	-	<b>BA222</b>	Si-diode	GP, Sw, 50V, 75mA, Vf<1.1V(50mA), <4ns, 2pF	DO-35	99d	Phi
	beige	red	yellow	orange	-	<b>BA243</b>	Si-diode	VHF-Band-Sw, 35V, 100mA, Vf<1V(100mA), 2pF	DO-35	99d	Phi
	beige	red	yellow	yellow	-	<b>BA244</b>	Si-diode	VHF-Band-Sw, 35V, 100mA, Vf<1V(100mA), 2pF	DO-35	99d	Phi
	beige	white	brown	blue	-	<b>1N916</b>	Si-diode	Sw, 100V, 200mA, Vf<1V(100mA), 2pF	DO-35	99d	Phi
	beige	white	brown	blue	brown	<b>1N916A</b>	Si-diode	Sw, 100V, 200mA, Vf<1V(20mA), 4pF	DO-35	99d	Phi
	beige	white	brown	blue	red	<b>1N916B</b>	Si-diode	Sw, 100V, 200mA, Vf<0.72V(5mA), 4pF	DO-35	99d	Phi
	beige	white	brown	yellow	-	<b>1N914</b>	Si-diode	Sw, 100V, 200mA, Vf<1V(100mA), 2pF	DO-35	99d	Phi
	beige	white	brown	yellow	brown	<b>1N914A</b>	Si-diode	Sw, 100V, 200mA, Vf<1V(20mA), 4pF	DO-35	99d	Phi
	black	blue	-	-	-	<b>DSM1SD4</b>	Si-diode	Rectif., 400V, 1A, Vf<1.1V(1A)	Outline No.5	97d	Hit
	black	blue	blue	-	-	<b>BYX134GPL</b>	Si-diode	HV Rectif, 4kV, 50mA, Vf<7V(10mA)	SOD-125A	97d	Phi
	black	blue	blue	-	-	<b>BYX134GPS</b>	Si-diode	HV Rectif, 4kV, 50mA, Vf<7V(10mA)	SOD-118A	97d	Phi
	black	blue	blue	-	-	<b>S5688G</b>	Si-diode	Rectif, 400V, 1A, Vf<1.2V(1A)	3-3F2A	97d	Tos
	black	brown	-	-	-	<b>BYX133GPL</b>	Si-diode	HV Rectif, 3kV, 50mA, Vf<5.25V(10mA)	SOD-125A	97d	Phi
	black	brown	blue	-	-	<b>BAX16</b>	Si-diode	GP, 150V, 300mA, Vf<1.3V(100mA), <120ns, 10pF	DO-35	99d	Phi
	black	brown	brown	-	-	<b>BYX133GPS</b>	Si-diode	HV Rectif, 3kV, 50mA, Vf<5.25V(10mA)	SOD-118A	97d	Phi
	black	brown	grey	-	-	<b>BAX18</b>	Si-diode	GP, 75V, 400mA, Vf<1.5V(2A), 20pF	DO-35	99d	Phi
	black	brown	orange	-	-	<b>BAX13</b>	Si-diode	GP, 50V, 75mA, Vf<1.1V(100mA), 3pF, 4ns	DO-35	99d	Phi
	black	brown	red	-	-	<b>BAX12</b>	Si-diode	Ctrl. avalanche, 90V, 400mA, Vf<1V(200mA), 50ns	DO-35	99d	Phi
	black	brown	violet	-	-	<b>BAX17</b>	Si-diode	GP, 200V, 300mA, Vf<1.2V(200mA), <120ns, 10pF	DO-35	99d	Phi
	black	brown	yellow	-	-	<b>BAX14</b>	Si-diode	GP, 40V, 400mA, Vf<1V(300mA), <50ns, 20pF	DO-35	99d	Phi
	black	green	-	-	-	<b>BB909B</b>	C-diode	VHF TV-tuning, 30V, 20mA, 33.5/3.2pF (1..28V)	DO-34	99d	Phi

**SECTION 4**  
**Axial case semiconductor components**  
**irregular marking**



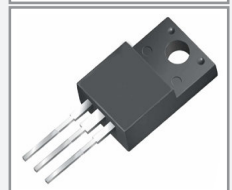
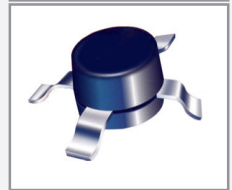
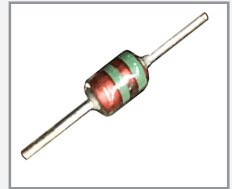
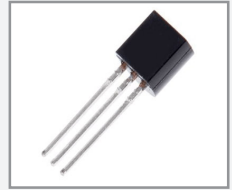
	Marking code	Case color	Cathode band color	Marking color	Type	Function	Short description	Case	Style	Pinout	Mnf
	-004	black	silver	silver	ERA81-004	Si-diode	SBR, 40V, 1A, Vf<0.55V(1A)	Outline No.15	15pb	142d	Fji
	-009	black	blue	blue	ERA84-009	Si-diode	SBR, 90V, 1A, Vf<0.9V(1A)	Outline No.15	15pb	142d	Fji
	01	black	white	white	ERA15-01	Si-diode	GP Rectif, 100V, 1A, Vf<1.1V(1A)	Outline No.15	15pe	142d	Fji
	01	tomato	blue	blue	E-101	Si-stabistor	10V, Ip=0.05..0.21mA	DO-35	15ha	99d	Set
	02	black	green	green	ERA22-02	Si-diode	Fast Recov. Rectif., 200V, 0.5A, Vf<1.5V(0.5A), 0.4us	Outline No.15	15pa	142d	Fji
	02	black	white	white	ERA15-02	Si-diode	GP Rectif, 200V, 1A, Vf<1.1V(1A)	Outline No.15	15pe	142d	Fji
	02	black	white	white	ERA17-02	Si-diode	GP Rectif, 200V, 1A, Vf<1.1V(1A)	Outline No.15	15pe	142d	Fji
	02	black	white	white	ERA91-02	Si-diode	Super Hi-sp. Rectif., 200V, 500mA, Vf<0.95V(500mA), 35ns	Outline No.15	15pa	142d	Fji
	02	black	white	white	ERA92-02	Si-diode	Super Hi-sp. Rectif., 200V, 1A, Vf<1.05V(1A), 35ns	Outline No.15	15pa	142d	Fji
	02	black	white	white	ERA18-02	Si-diode	Fast Recov. Rectif., 200V, 0.8A, Vf<1.05V(0.8A), 0.4us	Outline No.15	15pa	142d	Fji
	-02	black	white	white	ERC01-02	Si-diode	GP Rectif, 200V, 1.5A, Vf<1.1V(4A)	Outline No.17	15pb	143d	Fji
	03	tomato	blue	blue	E-301	Si-stabistor	10V, Ip=0.2..0.42mA	DO-35	15ha	99d	Set
	04	black	green	green	ERA22-04	Si-diode	Fast Recov. Rectif., 400V, 0.5A, Vf<1.5V(0.5A), 0.4us	Outline No.15	15pa	142d	Fji
	04	black	white	white	ERA15-04	Si-diode	GP Rectif, 400V, 1A, Vf<1.1V(1A)	Outline No.15	15pe	142d	Fji
	04	black	white	white	ERA17-04	Si-diode	GP Rectif, 400V, 1A, Vf<1.1V(1A)	Outline No.15	15pe	142d	Fji
	04	black	white	white	ERA38-04	Si-diode	Fast Recov. Rectif., 400V, 0.5A, Vf<2.5V(0.5A), 50ns	Outline No.15	15pa	142d	Fji
	04	black	white	white	ERA18-04	Si-diode	Fast Recov. Rectif., 400V, 0.8A, Vf<1.05V(0.8A), 0.4us	Outline No.15	15pa	142d	Fji
	-04	black	white	white	ERC01-04	Si-diode	GP Rectif, 400V, 1.5A, Vf<1.1V(4A)	Outline No.17	15pb	143d	Fji
	05	tomato	blue	blue	E-501	Si-stabistor	10V, Ip=0.4..0.63mA	DO-35	15ha	99d	Set
	05AB	tomato	black	black	EQA02-05AB	Zener diode	4.7V±5%, Izt=20mA, Zzt=30Ω, 500mW	Outline No.18	15q	99d	Ren
	05CD	tomato	black	black	EQA02-05CD	Zener diode	5.0V±5%, Izt=20mA, Zzt=30Ω, 500mW	Outline No.18	15q	99d	Ren
	05EF	tomato	black	black	EQA02-05EF	Zener diode	5.3V±5%, Izt=20mA, Zzt=30Ω, 500mW	Outline No.18	15q	99d	Ren
	05NU	black	silver	silver	05NU41	Si-diode	S-Fast Recov. Rectif., 1000V, 0.5A, Vf<3V(0.5A), 300ns	3-3E1A	15ma	97d	Tos
	06	black	green	green	ERA22-06	Si-diode	Fast Recov. Rectif., 600V, 0.5A, Vf<1.5V(0.5A), 0.4us	Outline No.15	15pa	142d	Fji
	06	black	white	white	ERA15-06	Si-diode	GP Rectif, 600V, 1A, Vf<1.1V(1A)	Outline No.15	15pe	142d	Fji
	06	black	white	white	ERA38-06	Si-diode	Fast Recov. Rectif., 600V, 0.5A, Vf<2.5V(0.5A), 50ns	Outline No.15	15pa	142d	Fji
	-06	black	white	white	ERC01-06	Si-diode	GP Rectif, 600V, 1.5A, Vf<1.1V(4A)	Outline No.17	15pb	143d	Fji
	06AB	tomato	black	black	EQA02-06AB	Zener diode	5.7V±5%, Izt=20mA, Zzt=20Ω, 500mW	Outline No.18	15q	99d	Ren
	06CD	tomato	black	black	EQA02-06CD	Zener diode	6.0V±5%, Izt=20mA, Zzt=20Ω, 500mW	Outline No.18	15q	99d	Ren
	06EF	tomato	black	black	EQA02-06EF	Zener diode	6.4V±5%, Izt=20mA, Zzt=20Ω, 500mW	Outline No.18	15q	99d	Ren
	06NA	white	red	red	AW01-06	Zener diode	5.2..6.8V, Zzt=9Ω, Izt=160mA, 1W	Outline No.3	15a	126d	Hit
	07	tomato	blue	blue	E-701	Si-stabistor	10V, Ip=0.6..0.92mA	DO-35	15ha	99d	Set
	07AB	tomato	black	black	EQA02-07AB	Zener diode	6.8V±5%, Izt=20mA, Zzt=15Ω, 500mW	Outline No.18	15q	99d	Ren
	07CD	tomato	black	black	EQA02-07CD	Zener diode	7.2V±5%, Izt=20mA, Zzt=15Ω, 500mW	Outline No.18	15q	99d	Ren
	07NA	white	red	red	AW01-07	Zener diode	6.2..7.9V, Zzt=7Ω, Izt=135mA, 1W	Outline No.3	15a	126d	Hit
	07OA	white	red	red	AU01-07	Zener diode	6.2..7.9V, Zzt=7Ω, Izt=335mA, 2.5W	Outline No.1	15a	126d	Hit

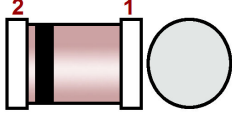
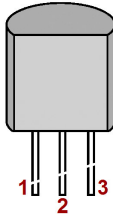
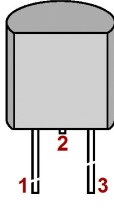




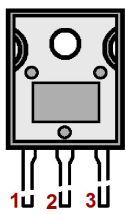
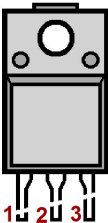
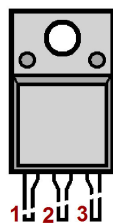
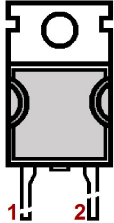
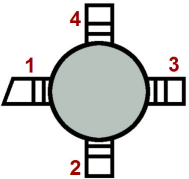
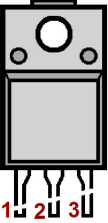
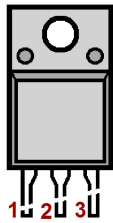

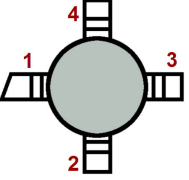
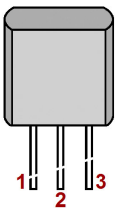
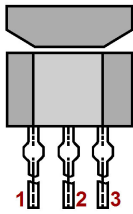


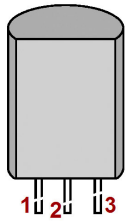

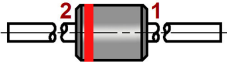
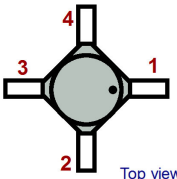
**SECTION 5**  
**Leaded case semiconductor components**  
**irregular marking**



Marking code	Type	Function	Case	Style	Short description	Atrib	Sch	Pinout	Data	Mnf
01	MAR-1SM	MMIC	SOT-173	13c	RF Amp, DC..1GHz, 15.5dB (50Ω)	-	A1	106aa	-	Mc
01	RAM-1	MMIC	SOT-173	13c	RF Amp, DC..1GHz, 13dB (50Ω)	-	A1	106aa	-	Mc
02	MAR-2SM	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 11dB (50Ω)	-	A1	106aa	-	Mc
02	RAM-2	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 8.5dB (50Ω)	-	A1	106aa	-	Mc
03	MAR-3SM	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 10.5dB (50Ω)	-	A1	106aa	-	Mc
03	RAM-3	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 8dB (50Ω)	-	A1	106aa	-	Mc
04	MAR-4SM	MMIC	SOT-173	13c	RF Amp, DC..1GHz, 8dB (50Ω)	-	A1	106aa	-	Mc
04	RAM-4	MMIC	SOT-173	13c	RF Amp, DC..1GHz, 7dB (50Ω)	-	A1	106aa	-	Mc
06	MAR-6SM	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 11dB (50Ω)	-	A1	106aa	-	Mc
06	RAM-6	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 9dB (50Ω)	-	A1	106aa	-	Mc
07	MAR-7SM	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 11dB (50Ω)	-	A1	106aa	-	Mc
07	RAM-7	MMIC	SOT-173	13c	RF Amp, DC..2GHz, 8.5dB (50Ω)	-	A1	106aa	-	Mc
08	MAR-8SM	MMIC	SOT-173	13c	RF Amp, DC..1GHz, 22.5dB (50Ω)	-	A1	106aa	-	Mc
08	RAM-8	MMIC	SOT-173	13c	RF Amp, DC..1GHz, 19dB (50Ω)	-	A1	106aa	-	Mc
08D	BS08D	Tr-el	TO-92S	11fd	Sw., 8V, 150mA, 450mW,	-	-	124b1	-	Ish
095	AP6209-12GE	LVR-IC	TO-92	11e	LDO, 1.2±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
095	AP6209-12PE	LVR-IC	TO-92	11e	LDO, 1.2±2%, 250mA	-	VR1	94vl	-	Anw
098	AP6209-15GE	LVR-IC	TO-92	11e	LDO, 1.5±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
098	AP6209-15PE	LVR-IC	TO-92	11e	LDO, 1.5±2%, 250mA	-	VR1	94vl	-	Anw
09A	AP6209-18GE	LVR-IC	TO-92	11e	LDO, 1.8±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09A	AP6209-18PE	LVR-IC	TO-92	11e	LDO, 1.8±2%, 250mA	-	VR1	94vl	-	Anw
09B	AP6209-BBGE	LVR-IC	TO-92	11e	LDO, 1.85±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09B	AP6209-BBPE	LVR-IC	TO-92	11e	LDO, 1.85±2%, 250mA	-	VR1	94vl	-	Anw
09D	AP6209-20GE	LVR-IC	TO-92	11e	LDO, 2.0±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09D	AP6209-20PE	LVR-IC	TO-92	11e	LDO, 2.0±2%, 250mA	-	VR1	94vl	-	Anw
09E	AP6209-22GE	LVR-IC	TO-92	11e	LDO, 2.2±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09E	AP6209-22PE	LVR-IC	TO-92	11e	LDO, 2.2±2%, 250mA	-	VR1	94vl	-	Anw
09G	AP6209-25GE	LVR-IC	TO-92	11e	LDO, 2.5±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09G	AP6209-25PE	LVR-IC	TO-92	11e	LDO, 2.5±2%, 250mA	-	VR1	94vl	-	Anw
09J	AP6209-27GE	LVR-IC	TO-92	11e	LDO, 2.7±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09J	AP6209-27PE	LVR-IC	TO-92	11e	LDO, 2.7±2%, 250mA	-	VR1	94vl	-	Anw
09K	AP6209-28GE	LVR-IC	TO-92	11e	LDO, 2.8±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09K	AP6209-28PE	LVR-IC	TO-92	11e	LDO, 2.8±2%, 250mA	-	VR1	94vl	-	Anw
09M	AP6209-30GE	LVR-IC	TO-92	11e	LDO, 3.0±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09M	AP6209-30PE	LVR-IC	TO-92	11e	LDO, 3.0±2%, 250mA	-	VR1	94vl	-	Anw
09Q	AP6209-33GE	LVR-IC	TO-92	11e	LDO, 3.3±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09Q	AP6209-33PE	LVR-IC	TO-92	11e	LDO, 3.3±2%, 250mA	-	VR1	94vl	-	Anw
09S	AP6209-42GE	LVR-IC	TO-92	11e	LDO, 4.2±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09S	AP6209-42PE	LVR-IC	TO-92	11e	LDO, 4.2±2%, 250mA	-	VR1	94vl	-	Anw
09T	AP6209-35GE	LVR-IC	TO-92	11e	LDO, 3.5±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09T	AP6209-35PE	LVR-IC	TO-92	11e	LDO, 3.5±2%, 250mA	-	VR1	94vl	-	Anw
09V	AP6209-36GE	LVR-IC	TO-92	11e	LDO, 3.6±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09V	AP6209-36PE	LVR-IC	TO-92	11e	LDO, 3.6±2%, 250mA	-	VR1	94vl	-	Anw
09Z	AP6209-50GE	LVR-IC	TO-92	11e	LDO, 5.0V±2%, 250mA, H-free	N01e	VR1	94vl	-	Anw
09Z	AP6209-50PE	LVR-IC	TO-92	11e	LDO, 5.0V±2%, 250mA	-	VR1	94vl	-	Anw

**SECTION 6**  
Conventional case drawings. Pin assignment



 <p>15</p>	 <p>94</p>	 <p>95</p>	 <p>97</p>
 <p>98</p>	 <p>99</p>	 <p>101</p>	 <p>102</p>
 <p>103</p>	 <p>104</p>	 <p>105</p>	 <p>134 Top view</p>
 <p>103</p>	 <p>104</p>	 <p>105</p>	 <p>106 Top view</p>
 <p>109</p>	 <p>124</p>	 <p>125</p>	 <p>126</p>
 <p>134</p>	 <p>142</p>	 <p>143</p>	 <p>174 Top view</p>



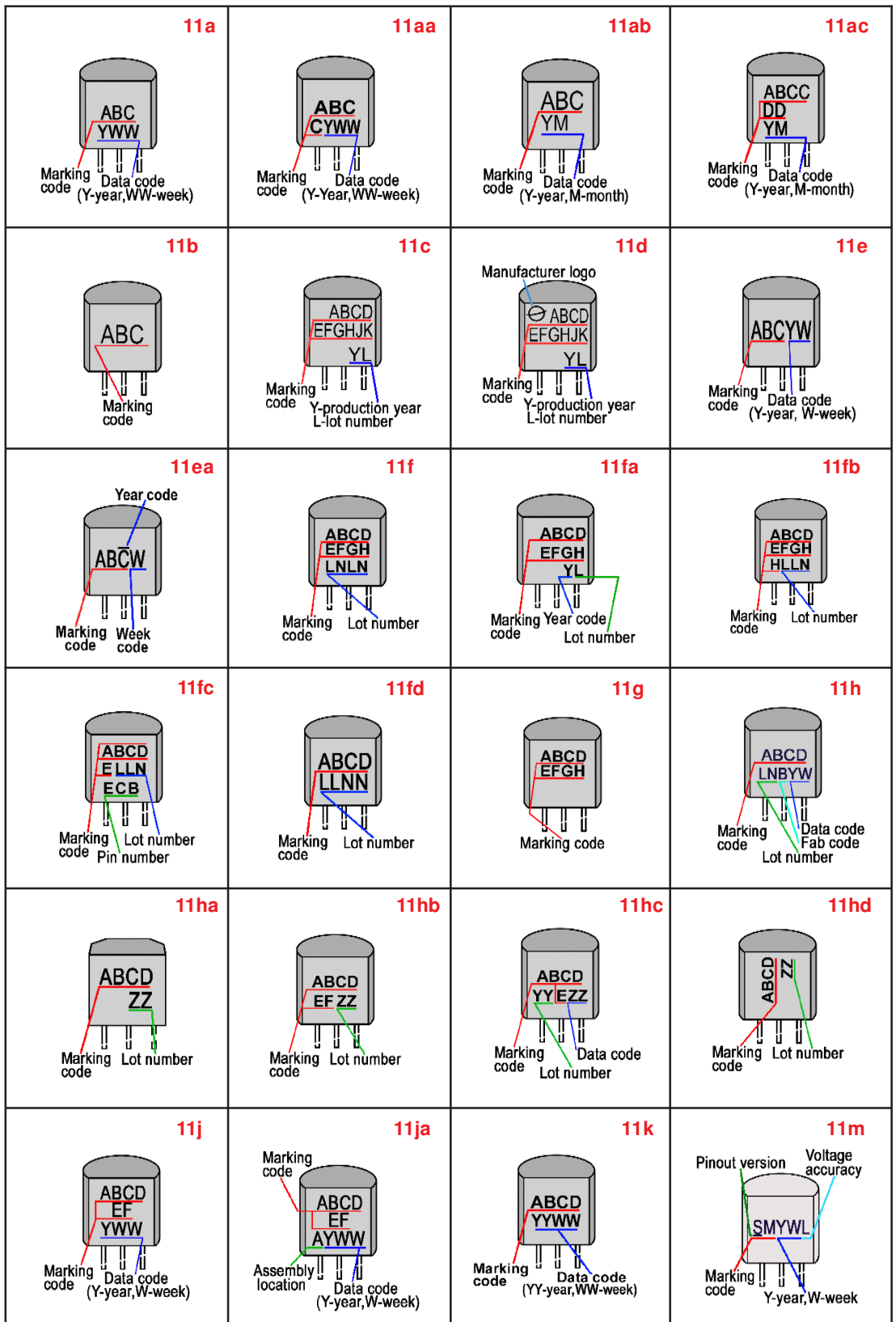
**SECTION 7**  
**Pinout (table)**



	PIN 1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8
ak	N/C	Cathode	Anode	-	-	-	-	-
aq	Contact	N/C	Contact	-	-	-	-	-
at	Cathode	Gate	Anode	-	-	-	-	-
ba	An/Cath.	An/Cath.	-	-	-	-	-	-
bd	Cathode	Cathode	Anode	-	-	-	-	-
bq	GND	Voutput	Lx	-	-	-	-	-
br	GND	Voutput	Ext	-	-	-	-	-
bz	Cathode	Anode	Cathode	-	-	-	-	-
cg	GND	Voutput	Vinput	-	-	-	-	-
ch	Voutput	GND	Vinput	-	-	-	-	-
cj	Voutput	Vinput	GND	-	-	-	-	-
ck	Voutput	Adjust	Vinput	-	-	-	-	-
cm	Adjust	Vinput	Voutput	-	-	-	-	-
cn	Adjust	Voutput	Vinput	-	-	-	-	-
d	Anode	Cathode	-	-	-	-	-	-
df	Cathode1	Cathode2	Com. Anode	-	-	-	-	-
dg	Anode1	Anode2	Com. Cath.	-	-	-	-	-
dh	Anode	Anode	Cathode	-	-	-	-	-
di	Anode	Cathode	N/C	-	-	-	-	-
dj	Anode1	Cat1/An2	Cathode2	-	-	-	-	-
dk	Cathode	Anode	N/C	-	-	-	-	-
dl	Anode1	Cathode2	Cat1/An2	-	-	-	-	-
dm	Anode	Cathode	Anode	-	-	-	-	-
dp	An/Cath.	An/Cath.	An/Cath.	-	-	-	-	-
du	Adjust	Cathode	Anode	-	-	-	-	-
ea	Cathode1	Anode2	An1/Cath2	-	-	-	-	-
eb	Cathode	N/C	Anode	-	-	-	-	-
eg	Vinput	Adjust	Voutput	-	-	-	-	-
eu	Vinput	GND	Voutput	-	-	-	-	-
fg	Source	Gate	Drain	-	-	-	-	-
fh	Gate	Source	Drain	-	-	-	-	-
fi	Gate	Drain	Source	-	-	-	-	-
fj	Drain	Source	Gate	-	-	-	-	-
fk	Drain	Gate	Source	-	-	-	-	-
ha	Vcc	Output	GND	-	-	-	-	-
hi	Vcc	GND	Output	-	-	-	-	-
ia	Gate	Collector	Emitter	-	-	-	-	-
rb	Reference	Anode	Cathode	-	-	-	-	-
rc	Cathode	Reference	Anode	-	-	-	-	-
rd	Reference	Cathode	Anode	-	-	-	-	-
ss	GND	Lx	Voutput	-	-	-	-	-
s w	GND	Ext	Voutput	-	-	-	-	-
ta	Base	Emitter	Collector	-	-	-	-	-
tb	Base	Collector	Emitter	-	-	-	-	-
te	Emitter	Base	Collector	-	-	-	-	-
tr	Emitter	Collector	Base	-	-	-	-	-
vvdb	Reset	GND	Vcc	-	-	-	-	-
vdc	GND	Reset	Vcc	-	-	-	-	-
vdd	Vcc	GND	Reset	-	-	-	-	-
vde	GND	Vcc	Reset	-	-	-	-	-
vdy	Vcc	Reset	GND	-	-	-	-	-
vj	Vinput	Voutput	GND	-	-	-	-	-
vl	GND	Vinput	Voutput	-	-	-	-	-

**SECTION 8**  
**Irregular and color code marking style**















## SECTION 9

Irregular and color code marking attribute

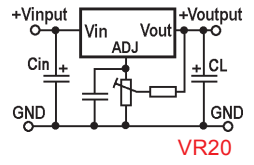
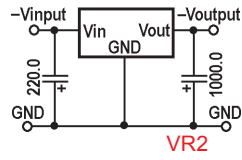
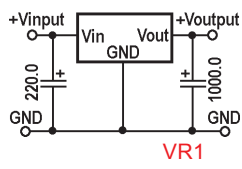
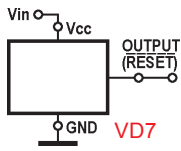
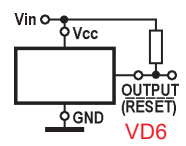
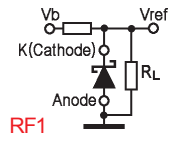
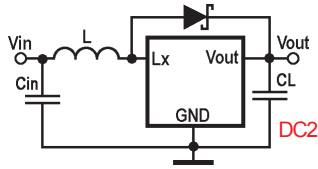
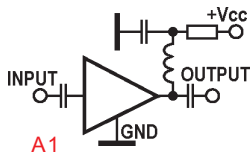


<p><b>N01a</b></p> 	<p><b>N01b</b></p> 	<p><b>N01d</b></p> 	<p><b>N01e</b></p> 
<p><b>N01f</b></p> 	<p><b>N02a</b></p> 	<p><b>N02b</b></p> 	<p><b>N03a</b></p> 
<p><b>N03b</b></p> 	<p><b>N03c</b></p> 		

**SECTION 10**

**Sample schematic diagram**







**SECTION 11**

**Additional production data info**



Besides irregular marking code, the manufacturers can place additional information such as **internal production lot number, traceability code, data of production, assembly location** etc. The additional info is an arbitral position and arbitral content (depending of the manufacturer) and can be alphanumeric symbol (symbols) or graphic symbol. Below we present some additional info.

- 01** Year: A-2010, B-2011, C-2012, D-2013, E-2014, F-2015, H-2016, J-2017, K-2018, L-2019, M-2020, N-2021, P-2022, R-2023, S-2024, T..X- 2025..2029, Week: 01, 02..53.
- 02** Year: J..N- 1998..2002, P- 2003, R..Z- 2004..2012, A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S- 2013..2031, Month: 1- Jan, 2- Feb, 3- Mar, 4- Apr, 5- May, 6- Jun, 7- Jul, 8- Aug, 9- Sep, O- Oct, N- Nov, D- Dec.
- 03** Year: 0- 2020, 1- 2021, 2- 2022,..8- 2028, 9- 2029, Week: 01..53
- 04** Year: 0- 2020, 1- 2021, 2- 2022,..8- 2028, 9- 2029, Month: A- Jan, B- Feb, C- Mar, D- Apr, E- May, F- Jun, G- Jul, H- Aug, I- Sep, J- Oct, K- Nov, L- Dec.
- 05** Lot number: 01..09, 0A..0Z, 11..9Z, A1..A9, AA..Z9, ZA..ZZ repeated (G, I, J, O, Q, W excepted). No character inversion used.
- 06** Lot number: L=A..Z repeated (I, O, X excepted), N=1..9 repeated
- 07** Lot number: 0..9, A..Z repeated (G, I, J, O, Q, W excepted).
- 08** Year: Last decimal digit of the year - representet by specific line, Month: 1-Jan, 2-Feb, 3-Mar, 4-Apr, 5-May, 6-Jun, 7-Jul, 8-Aug, 9-Sep, O-Oct, N-Nov, D-Dec.
- 09** Lot number: 0..9, A..Z repeated (G, I, J, O, Q, W excluded). No character inversion used.
- 10** Lot number: 0..9, A..Z reverse character, 0..9, A..Z repeated (G, I, J, O, Q, W excepted).
- 11** Year: W-2009, X-2010, Y-2011, Z-2012, A-2013, B-2014, C-2015, D-2016, Month: 1-Jan, 2-Feb, 3-Mar, 4-Apr, 5-May, 6-Jun, 7-Jul, 8-Aug, 9-Sep, O-Oct, N-Nov, D-Dec.
- 12** Lot number: 01..09, 10, 11..99, 0A..0Z, 1A..1Z repeated (G, I, J, O, Q, W excluded).
- 13** Lot number: 01..09, 0A..0Z, 11..9Z, A1..A9, AA..Z9, B1..ZZ in order (G, I, J, O, Q, W excluded).
- 14** Year: 1- 2021, 2- 2022..0- 2030.., Week: A..Z: 1..26 week, a..z: 27..52 week
- 15** Lot number: repeated 0..9, A..Z or inverted 0..9, A..Z (G, I, J, O, Q, W excluded).
- 16** Year: Last decimal digit of the year - representet by specific line, Month: A- Jan, B- Feb, C- Mar, D- Apr, E- May, F- Jun, G- Jul, H- Aug, I- Sep, J- Oct, K- Nov, L- Dec.
- 17** A- assembly location, Y- year, W- work week
- 18** SMD-symbol subscript bar- 2012 prod. year, 2-SMD-symbol superscript bar- 2013 prod. year, f: week (A..Z- 1..26 week, a..z- 27..52 week)
- 19** Year/Month: Black j..z: Jan.1988..May.1989, Brown a..z: Jun.1989..Jul.1990, Red a..z:Aug.1991..Oct..1993, Blue a..z:Oct.1993..Nov.1995, Green a..m: Dec.1995..Dec. 1996
- 20** Lot number: L=1..0, A..Z repeated (I, O, X excepted)
- 21** Date code orientation and/or position may vary depending upon manufacturing location.
- 22** Lot number: L=A..Z (I, O, X excepted)
- 23** Lot number: L 0..9 repeated, N=A..Z repeated (I, O, X excepted)
- 24** 2-SMD-symbol subscript bar- 2012 prod. year, 2-SMD-symbol superscript bar- 2013 prod. year, 3-SMD-symbol subscript bar- 2014 prod. year, 3-SMD-symbol superscript bar- 2015 prod. year, W: week (A..Z- 1..26 week, a..z- 27..52 week)
- 25** Year: last digit of the year (ex: 14 for 2024, 15 for 2025, 16 for 2026..), Week: 01, 02..53
- 26** W: week - A..Z - 1..26 week, a..z - 27..52 week.
- 27** Year: A=2020, 1=2021, 2=2022..5=2025..9=2029.
- 28** Year: A-2010, B-2011, C-2012, D-2013, E-2014, F-2015, H-2016, J-2017, K-2018, L-2019, M-2020, N-2021, P-2022, R-2023, S-2024, T..X- 2025..2029, Month: A-Jan, B-Feb, C-Mar, D-Apr, E-May, F-Jun, G-Jul, H-Aug, I-Sept, J-Oct, K-Nov, L-Dec, Week: 01, 02..53
- 29** 3-SMD-symbol subscript bar- 2006 prod. year, 3-SMD-symbol superscript bar- 2007 prod. year, 4-SMD-symbol subscript bar- 2008 prod. year, Week: A..Z - 1..26 week, a..z - 27..52 week.
- 30** Year: 0-2020, 1-2021, 2-2022, 3-2023..9-2029, Month: 1- Jan, 2- Feb, 3- Mar, 4- Apr, 5- May, 6- Jun, 7- Jul, 8- Aug, 9- Sep, O- Oct, N- Nov, D- Dec.
- 31** Month: 1- Jan, 2- Feb, 3- Mar, 4- Apr, 5- May, 6- Jun, 7- Jul, 8- Aug, 9- Sep, O- Oct, N- Nov, D- Dec.
- 32** Year: W-2008, X-2009, A-2010, B-2011, C-2012, E-2013, F-2014, G-2015, H-2016, I-2017, K-2018, Month: 1-Jan, 2-Feb, 3-Mar, 4-Apr, 5-May, 6-Jun, 7-Jul, 8-Aug, 9-Sep, O-Oct, N-Nov, D-Dec.
- 33** Year: W-2009, X-2010, Y-2011, Z-2012, A-2013, B-2014, C-2015, D-2016, E-2017, F-2018, G-2019, H-2020, Month: 1 or E-Jan, 2 or F-Feb, 3 or H-Mar, 4 or J-Apr, 5 or K-May, 6 or L-Jun, 7 or N-Jul, 8 or P-Aug, 9 or U-Sep, T or X-Oct, V or Y-Nov, C or Z-Dec.
- 34** Year: Y-2010, B-2011, C-2012, E-2013, F-2014, G-2015, H-2016, L-2017, K-2018, Month: 1- Jan, 2- Feb, 3- Mar, 4- Apr, 5- May, 6- Jun, 7- Jul, 8- Aug, 9- Sep, O- Oct, N- Nov, D- Dec.
- 35** YMLN- Y- Year (last number of a year), M- Month: 1-Jan, 2-Feb, 3-Mar, 4-Apr, 5-May, 6-Jun, 7-Jul, 8-Aug, 9-Sept, A-Oct, B-Nov, C-Dec, LN- internal lot number
- 36** Work week: 01, 02..52
- 38** Year: 0-2020, 1-2021, 2-2022, 3-2023..9-2029, Month: 1- Jan, 2- Feb, 3- Mar, 4- Apr, 5- May, 6- Jun, 7- Jul, 8- Aug, 9- Sep, A- Oct, B- Nov, C- Dec.



**SECTION 12**  
**Manufacturers name, logo and web page URL**





**Aat- Advanced Analog Technology**  
<http://www.aatech.com.tw/index.aspx>



**Abi- ABLIC Inc.**  
<https://www.ablicinc.com/en/semicon/>



**Ad- Analog Devices**  
<http://www.analog.com>



**Adt- ADDtek**  
<http://www.admtek.com/Index.htm>



**Afs- Analog Future Chip Co., Ltd.**  
<http://www.afsemi.com/>



**Agi- Agilent Technologies**  
[www.semiconductor.agilent.com](http://www.semiconductor.agilent.com)



**Aic- Analog Integrations Corporation**  
<http://www.analog.com.tw>



**Ali- Alliance Semiconductor**  
<http://www.alsc.com>



**All- Allegro MicroSystems Inc.**  
<http://www.allegromicro.com>



**Alt- Aolittel Technology Co., Ltd**  
<http://www.aolittel.com>



**Ame- AME, Inc.**  
[www.ame.com.tw](http://www.ame.com.tw)



**Ams- AMOS Technology Limited**  
<http://www.amos-tech.com>



**Amz- Amazing Microelectronic**  
<http://www.amazingIC.com>



**Ana- Anachip Corp.**  
[www.anachip.com.tw](http://www.anachip.com.tw)



**Anb- Anbon Semiconductor Co., Ltd.**  
<http://www.anbonsemi.com>



**Anp- Anpec Electronics Corp.**  
[www.anpec.com.tw](http://www.anpec.com.tw)



**Ans- AnaSem Inc.**  
<http://www.anasem.net/>



**Ant- Advanced Analogic Technologies, Inc.**  
<http://www.analogictech.com>



**Anv- Anova Technologies Co. Ltd**  
<http://anova-semi.com/>



**Anw- Anwell Semiconductor Corp.**  
<http://www.ansc.com.tw/>



**Aom- Alpha & Omega Semiconductor**  
<http://www.aosmd.com/>



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