

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

**REVERSE VOLTAGE – 30 Volts
FORWARD CURRENT – 0.2 Ampere**

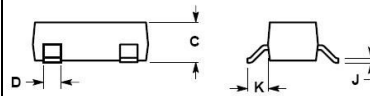
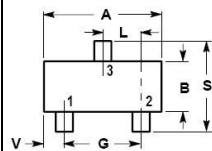
FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage
- Very Small Conduction Losses

MECHANICAL DATA

- Case: SOT-23 Plastic
- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant

SOT-23



SOT-23		
Dim.	Min.	Max.
A	2.80	3.04
B	1.20	1.40
C	0.89	1.11
D	0.37	0.50
G	1.78	2.04
J	0.085	0.177
K	0.35	0.69
L	0.89	1.02
S	2.10	2.64
V	0.45	0.60
Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Units
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _R RM V _R RWM V _R	30				V
Forward Continuous Current	I _{FM}	200				mA
Forward Surge Current @t<1.0s	I _{FSM}	600				mA
Power Dissipation	P _D	200				mW
Operating Temperature Range	T _J	125				°C
Storage Temperature Range	T _{STG}	-55~+150				°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Unit
Reverse Breakdown Voltage	I _R = 100uA	V _{BR}	30				V
Maximum Forward Voltage	I _F = 0.1mA I _F = 1mA I _F = 10mA I _F = 30mA I _F = 100mA	V _F	240 320 400 500 1000				mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 25V	I _R	2				uA
Typical Diode Capacitance	V _R = 1.0V, f=1MHz	C _D	10				pF
Reverse Recovery time	I _{rr} =1mA, I _R =I _F =10mA R _L =100Ω	trr	5				nS

RATING AND CHARACTERISTIC CURVES

BAT54, BAT54A / C / S



FIG.1- TYPICAL FORWARD CHARACTERISTICS

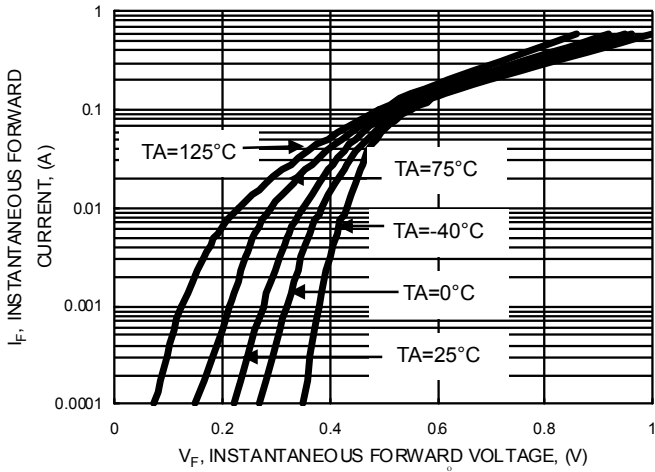


FIG.2- TYPICAL REVERSE CHARACTERISTICS

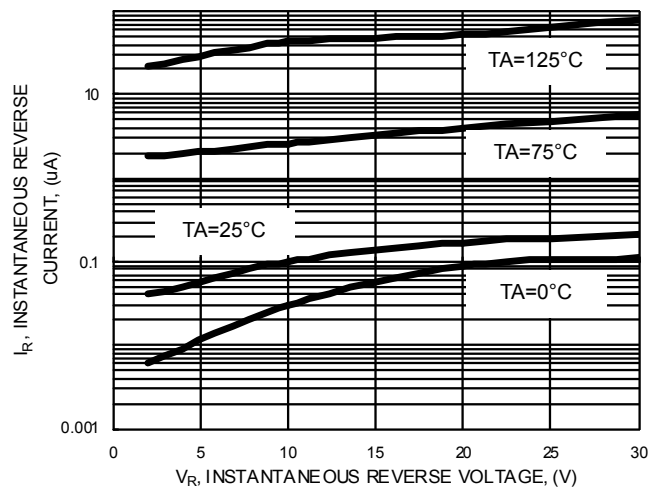


FIG.3- TYPICAL JUNCTION CAPACITANCE

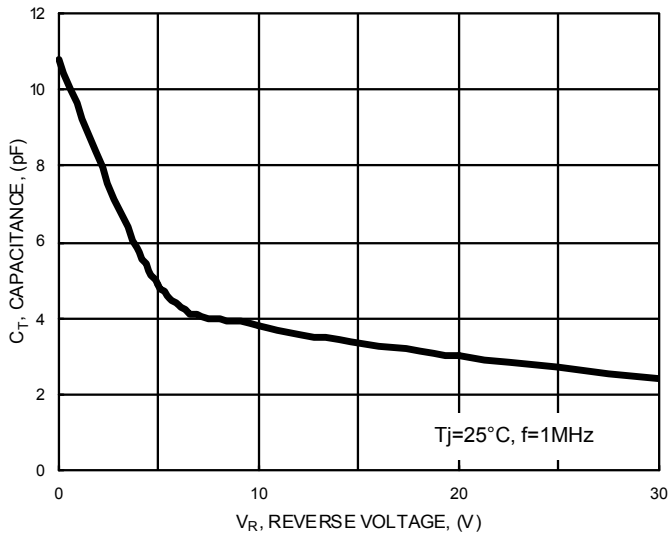
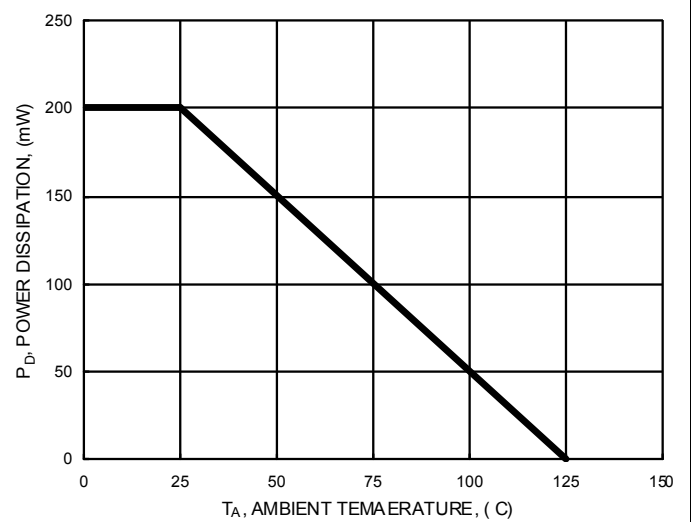


FIG.4- POWER DERATING CURVE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
BAT54	JV3	
BAT54A	B6	
BAT54C	5C	
BAT54S	LD3	

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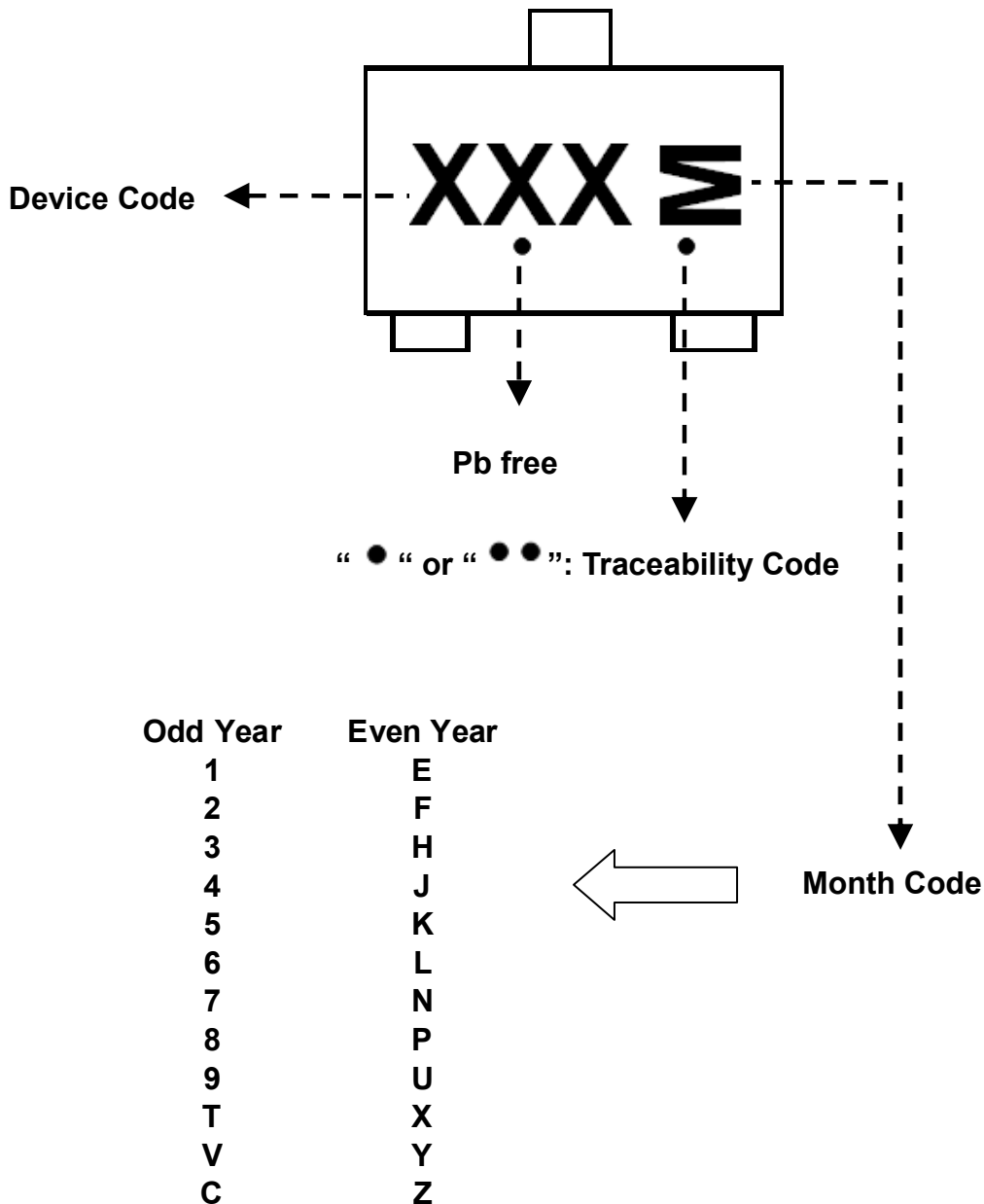
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New Marking Rule Notification

Range: In order to have well management in process control, the new marking rule is applied to small signal device including Switching Diode, Transistor and Schottky Diode.

Package: SOT-23 / SOT-323 / SOT-523



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