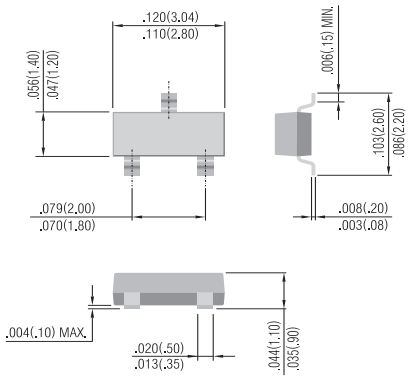
BAT54 SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts **CURRENT** 0.2 Amperes

SOT-23 Unit: inch (mm)



FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.008 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Units
Marking code	-	L4	L42	L43	L44	-
Forward Power Dissipation@T_A=25°C	P_D	225				mW
Peak Repetitive Reverse Voltage	V_{RRM}	30				V
Maximum Average Forward Current at T_A=75°C	I_O	0.2				A
Peak Forward Surge Current, 1.0s (JEDEC method)	I_{FSM}	0.6				A
Maximum Instantaneous Forward Voltage @ I_F=1mA @ I_F=100mA	V_F	0.32 0.8				V
Maximum DC Reverse Current at Rated DC Blocking Voltage@V_R=25V	I_R	2.0				μA
Junction Capacitance : at V_R=1V	C_J	10				pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500				°C/ W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125				°C
Circuit Figure	-	Single	Common Anode	Common Cathode	Series	-

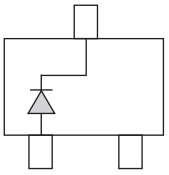


FIG.14

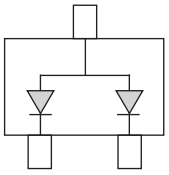


FIG.15

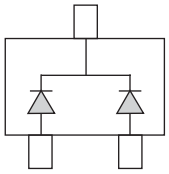


FIG.16

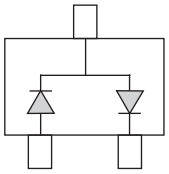


FIG.17

BAT54 SERIES

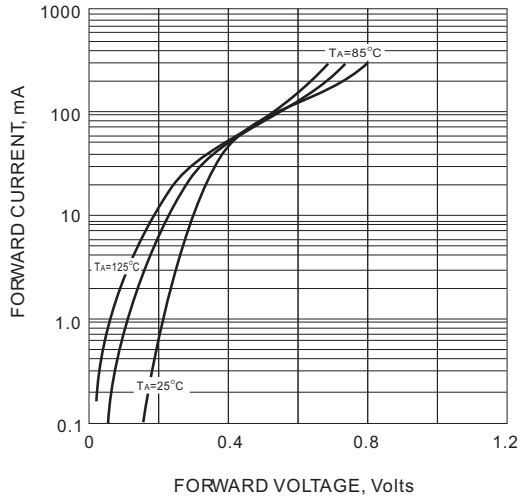


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

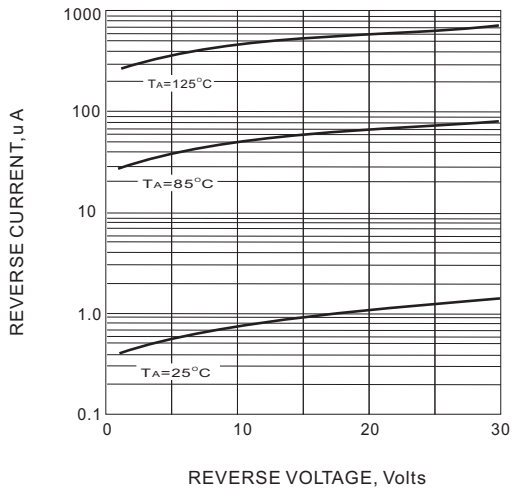


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

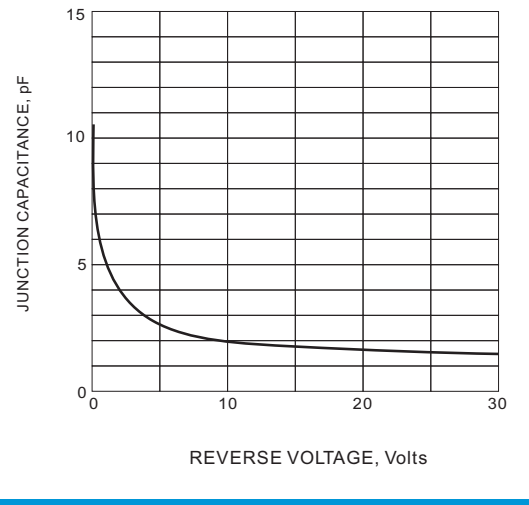


FIG. 3 TYPICAL JUNCTION CAPACITANCE

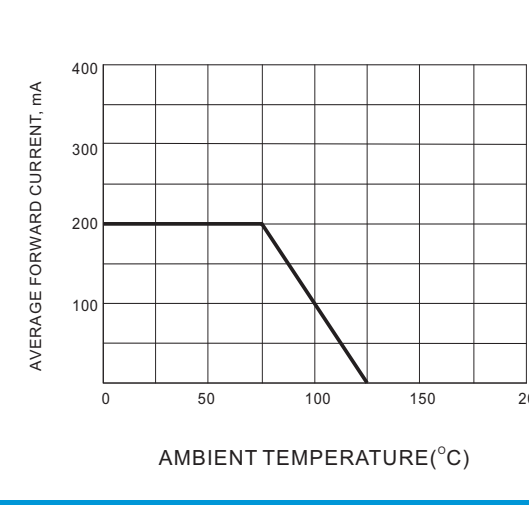
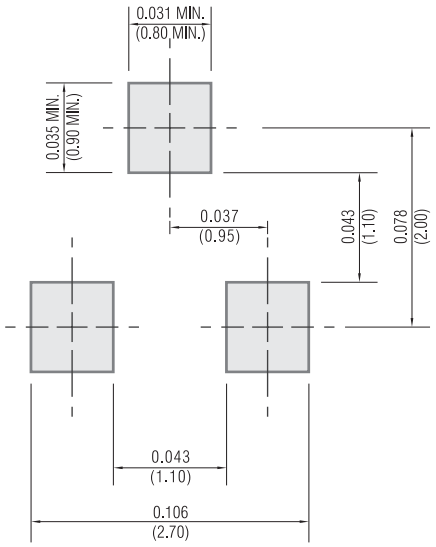


FIG. 4 FORWARD CURRENT DERATING

BAT54 SERIES

MOUNTING PAD LAYOUT

SOT-23 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 3K per 7” plastic Reel

LEGAL STATEMENT

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