



BAT54 SERIES

SURFACE MOUNT SCHOTTKY BARRIER

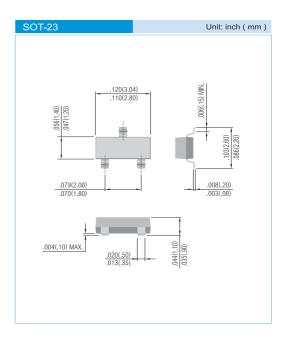
VOLTAGE 30 Volts CURRENT 0.2 Ampers

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

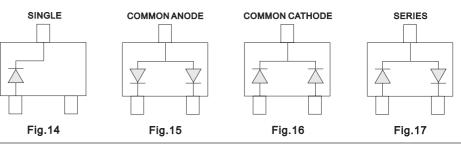
- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.008 gram



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	-
Peak Repetitive Reverse Voltage	V _{RRM}	30				V
Maximum Average Forward Current at Ta=75°C	I _{F(AV)}	0.2				А
Peak Forward Surge Current, 1.0s (JEDEC method)	I _{FSM}	0.6				А
	V _F	0.32 1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ V _R =25V	I _R	2.0				uA
Junction Capacitance at V _R =1V	C	10				pF
Thermal Resistance, Junction to Ambient	R _{eJA}	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	-



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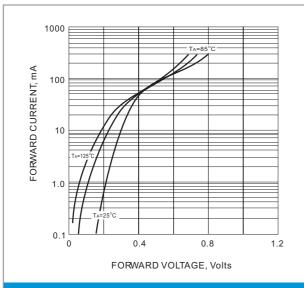


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

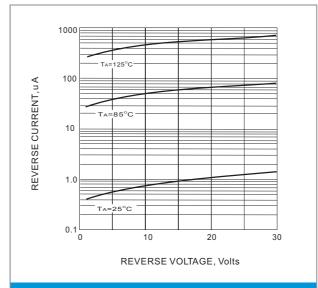
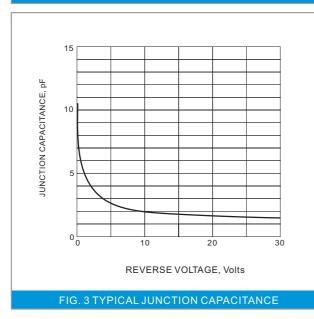
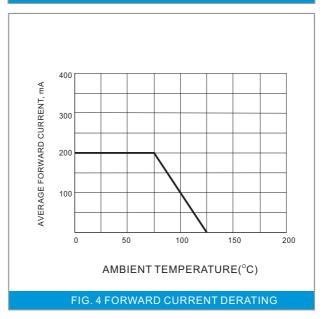


FIG. 2-TYPICAL REVERSE CHARACTERISTICS





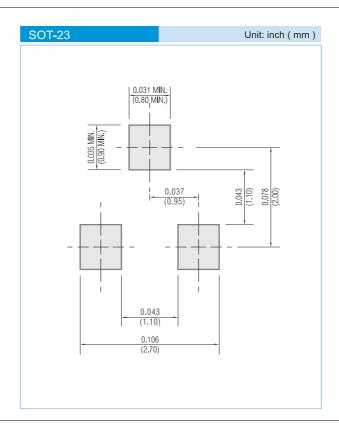
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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