

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volt CURRENT 0.2 Ampere

FEATURES

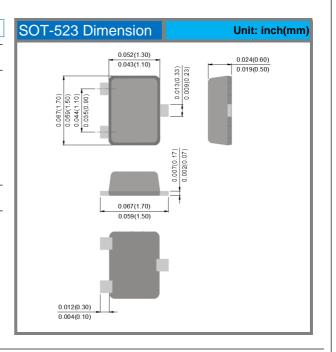
- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: SOT-523, Plastic

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

· Approx. Weight: 0.002 grams

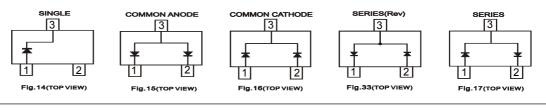


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAT54TB	BAT54ATB	BAT54CTB	BAT54RTB	BAT54STB	UNITS
Marking code	-	LV	LW	LX	LG	LY	-
Peak Repetitive Reverse Voltage	V _{RRM}	30					V
Average Forward Current	lo	0.2					А
Peak Forward Surge Current, 1s	I _{FSM}	0.6					А
Instantaneous Forward Voltage at IF=1mA at I F=100mA	V _F	0.32 0.6					V
DC Reverse Current at Rated DC Blocking Voltage@VR=25V	I _R	2					μΑ
Typical Junction Capacitance at V _R =0V, f=1MHz	C	10					pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	RөJA	833					°C/ W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +125					°C
Circuit Figure	-	Single	Common Anode	Common Cathode	Series (Rev)	Series	-

Note:

1. Mounted on minimum pad layout.





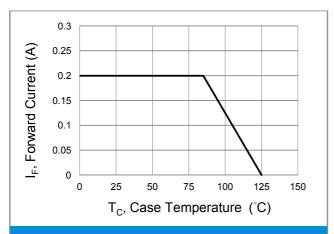


Fig.1 Forward Current Derating Curve

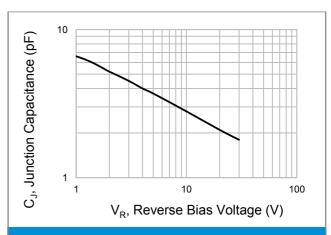


Fig.2 Typical Junction Capacitance

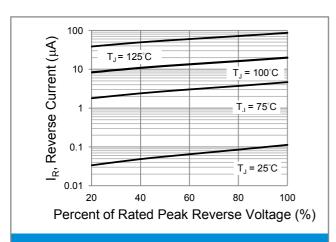


Fig.3 Typical Reverse Characteristics

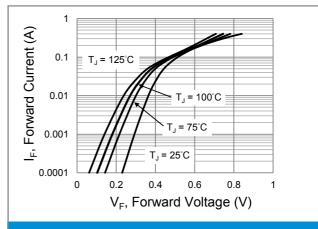


Fig.4 Typical Forward Characteristics

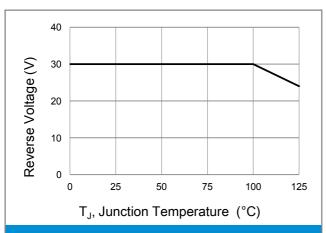
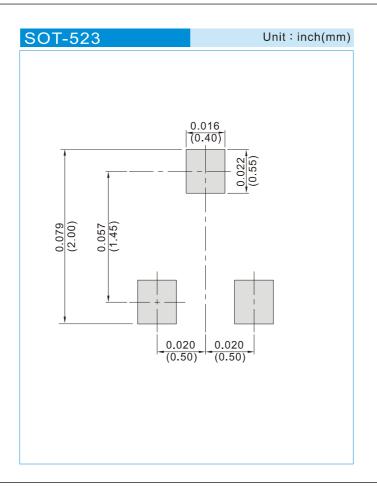


Fig.5 Operating Temperature Derating Curve



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel



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