



BAT54TB SERIES

SURFACE MOUNT SCHOTTKY BARRIER

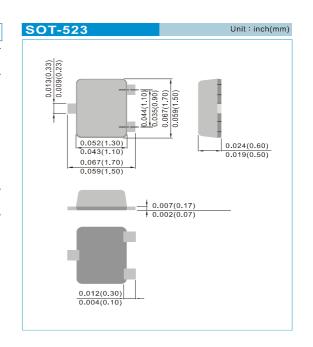
VOLTAGE 30 Volt CURRENT 0.2 Ampere

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: 0.00007 ounces, 0.002 grams



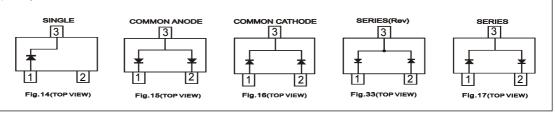
Part Number: BAT54TB_SERIES

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

PARAMETER		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					
Peak Forward Surge Current, 1s	I _{FSM}	0.6					
Instantaneous Forward Voltage at IF=1mA at I F=100mA	V _F	0.32 0.6					
DC Reverse Current at Rated DC Blocking Voltage@VR=25V	I _R	2					
Typical Junction Capacitance at V _R =0V, f=1MHz	C¹	10					pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	RөJA	833					
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.



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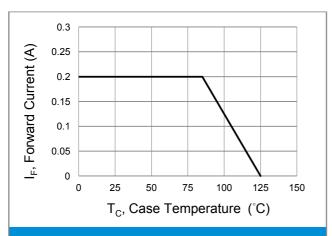


Fig.1 Forward Current Derating Curve

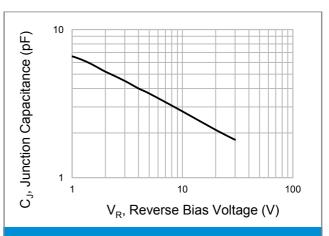


Fig.2 Typical Junction Capacitance

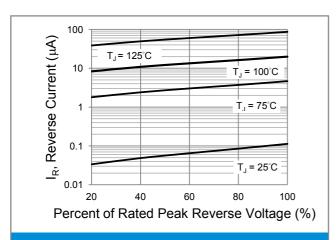


Fig.3 Typical Reverse Characteristics

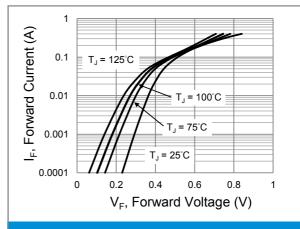


Fig.4 Typical Forward Characteristics

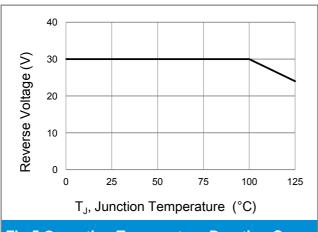


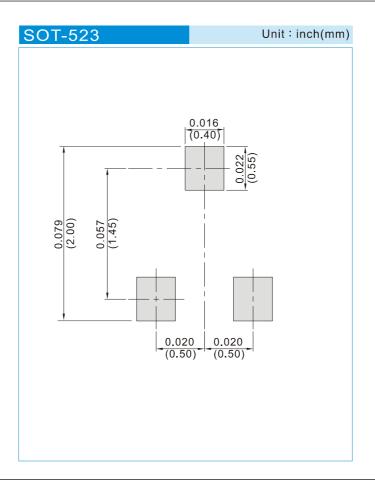
Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel

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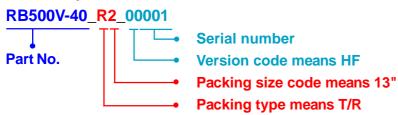
Part Number: BAT54TB_SERIES

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Part No_packing code_Version

BAT54TB_R1_00001

For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					

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