

BAT54TB/ATB/CTB/RTB/STB

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts

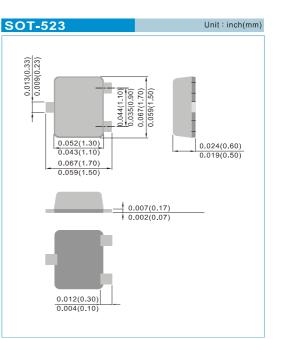
CURRENT 0.2 Amperes

FEATURES

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOT-523, Plastic Terminals: Solderable per MIL-STD-750, Method 2026 Approx. Weight: 0.002 gram

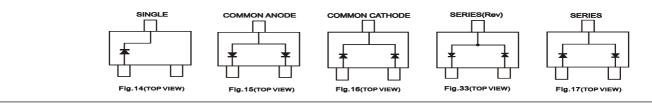


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAT54TB	BAT54ATB	BAT54CTB	BAT54RTB	BAT54STB	UNITS
Marking code	-	LV	LW	LX	LG	LY	-
Peak Repetitive Reverse Voltage	V _{RRM}			30			V
rage Forward Current Io 0.2							А
ak Forward Surge Current, 1.0s (JEDEC method) I _{FSM} 0.6							A
Instantaneous Forward Voltage at IF=1mA at IF=100mA	V _F	0.32 1.0					
DC Reverse Current at Rated DC Blocking Voltage@VR=25V	I _R	2.0					μA
Typical Junction Capacitance at VR=0V, f=1.0MHz	C	10					рF
cal Thermal Resistance, Junction to Ambient (Note 1) $R_{\theta JA}$ 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.







RATING AND CHARACTERISTIC CURVES

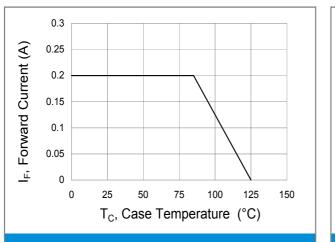
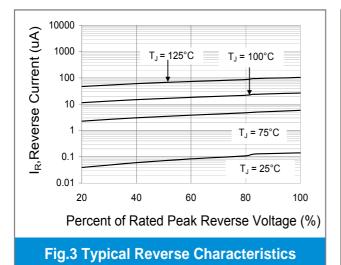


Fig.1 Forward Current Derating Curve



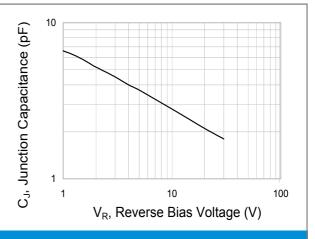


Fig.2 Typical Junction Capacitance

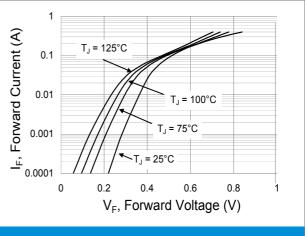
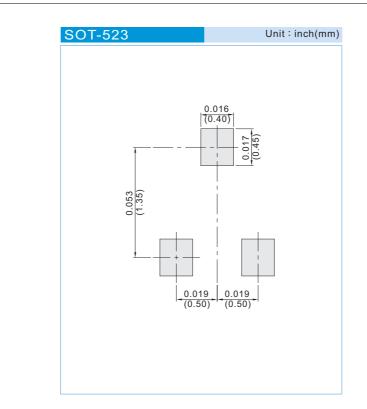


Fig.4 Typical Forward Characteristics



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel

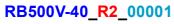




Part No_packing code_Version

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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