



BAT54TB SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volt **CURRENT** 0.2 Ampere

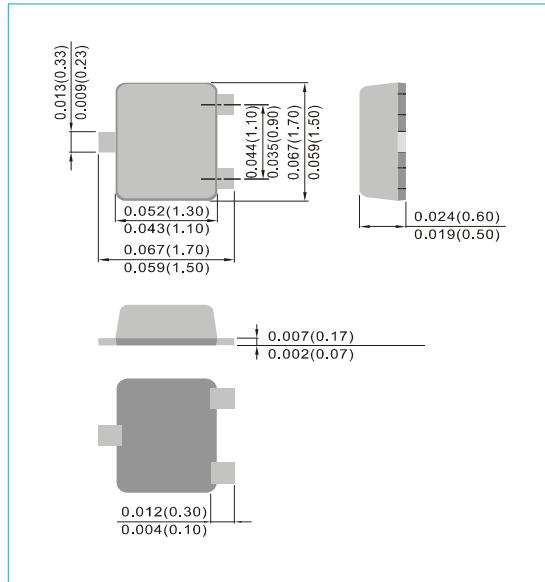
FEATURES

- 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

SOT-523 Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=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	I _O	0.2						A
Peak Forward Surge Current, 1s	I _{FSM}	0.6						A
Instantaneous Forward Voltage at I _F =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						μA
Typical Junction Capacitance at V _R =0V, f=1MHz	C _J	10						pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	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.

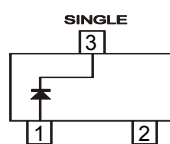


Fig. 14(TOP VIEW)

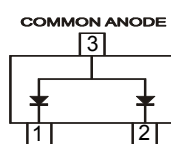


Fig. 15(TOP VIEW)

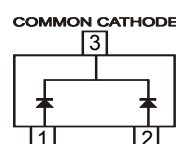


Fig. 16(TOP VIEW)

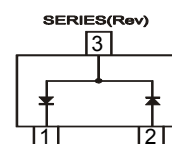


Fig. 33(TOP VIEW)

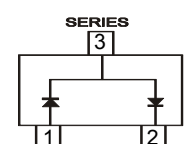


Fig. 17(TOP VIEW)



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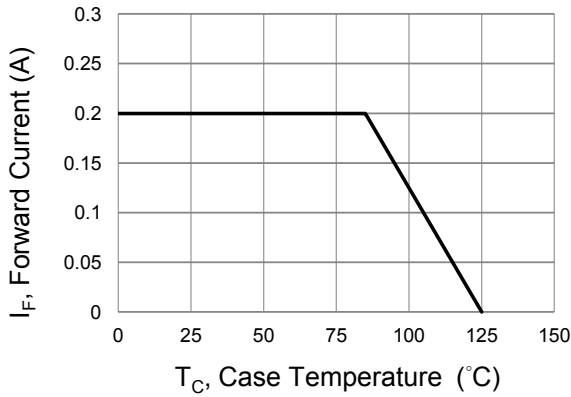


Fig.1 Forward Current Derating Curve

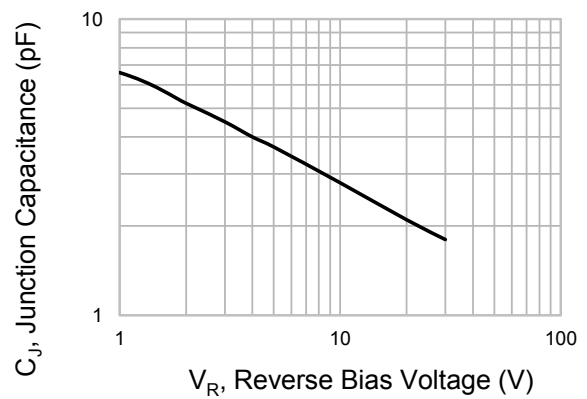


Fig.2 Typical Junction Capacitance

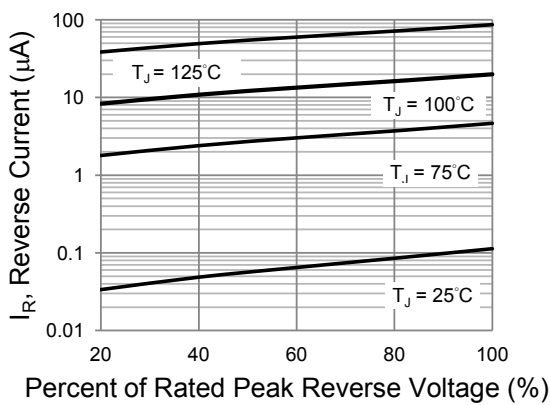


Fig.3 Typical Reverse Characteristics

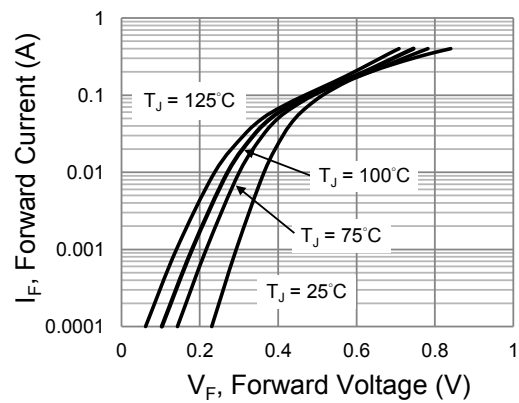


Fig.4 Typical Forward Characteristics

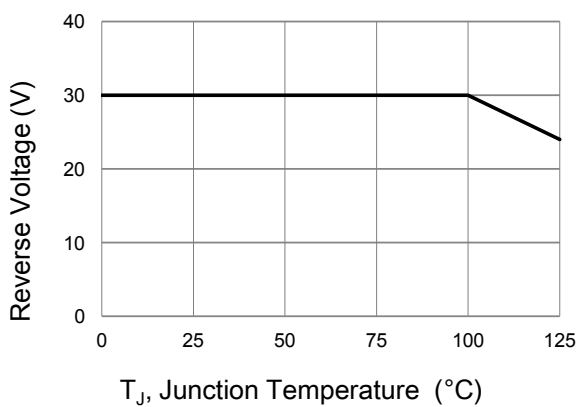
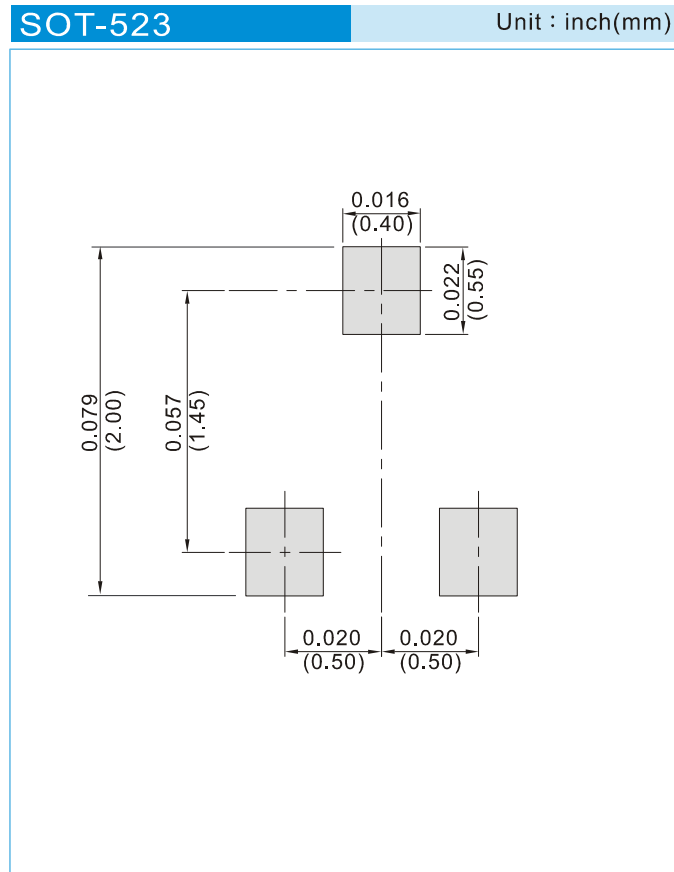


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 4K per 7" plastic Reel



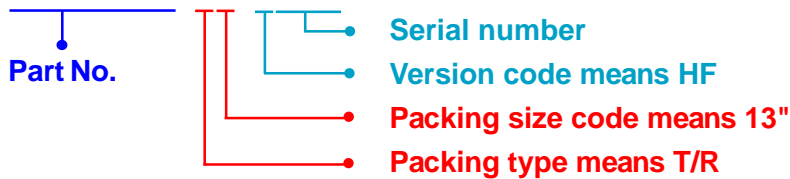
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Part No_packing code_Version

BAT54TB_R1_00001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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