



**THE DATASHEET OF
BAT54ATB_R1_00001**





BAT54TB SERIES

SURFACE MOUNT SCHOTTKY BARRIER

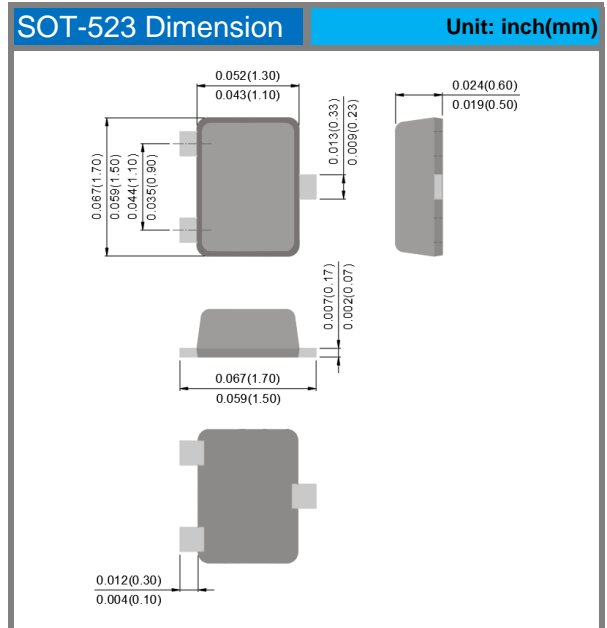
VOLTAGE 30 Volt **CURRENT** 0.2 Ampere

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 : 0.002 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	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)	$R_{\theta JA}$	833						$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125						$^{\circ}C$
Circuit Figure	-	Single	Common Anode	Common Cathode	Series (Rev)	Series	-	

Note :

1. Mounted on minimum pad layout.

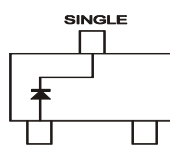


Fig. 14(TOP VIEW)

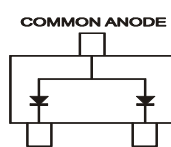


Fig. 15(TOP VIEW)

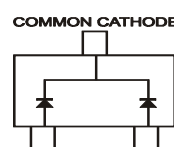


Fig. 16(TOP VIEW)

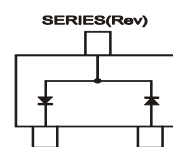


Fig. 33(TOP VIEW)

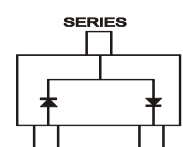


Fig. 17(TOP VIEW)



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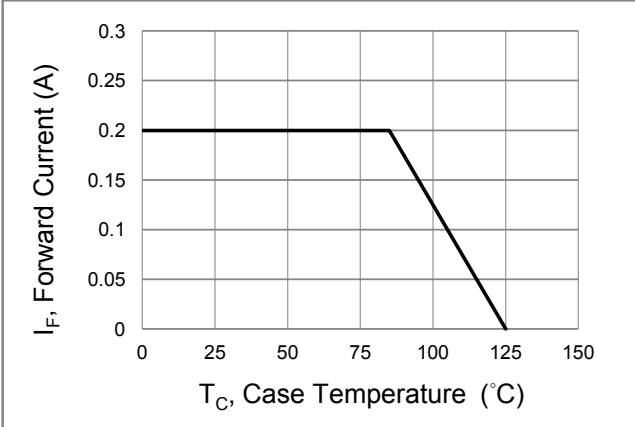


Fig.1 Forward Current Derating Curve

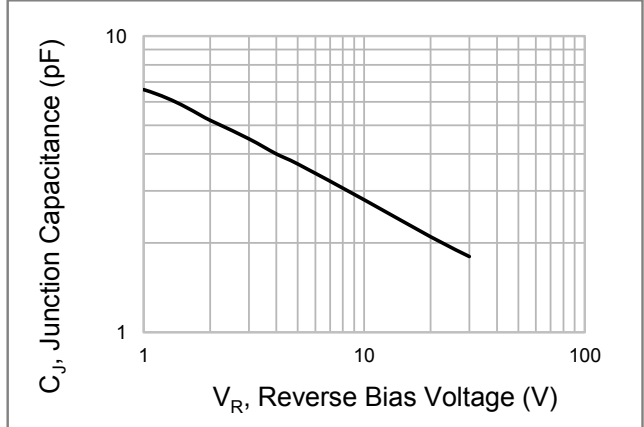


Fig.2 Typical Junction Capacitance

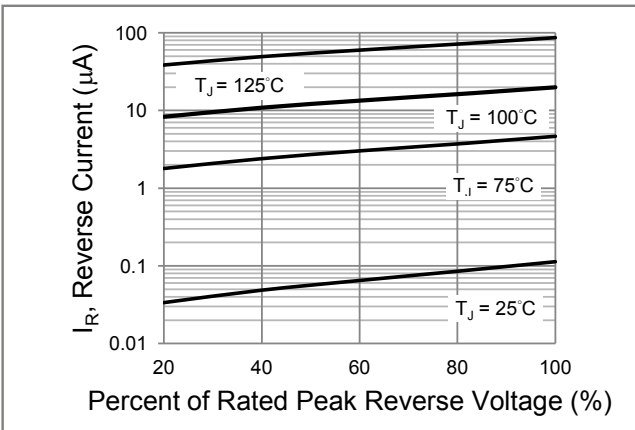


Fig.3 Typical Reverse Characteristics

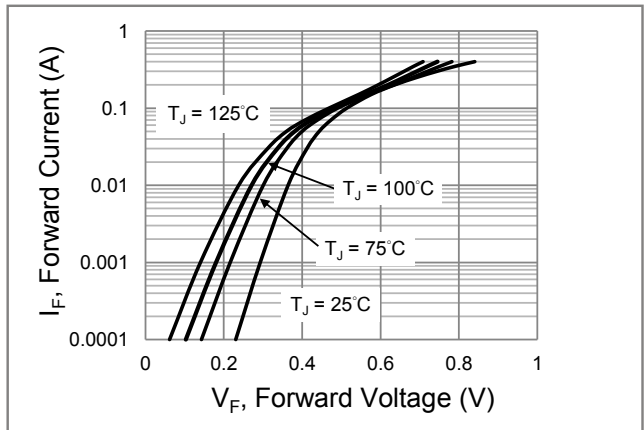


Fig.4 Typical Forward Characteristics

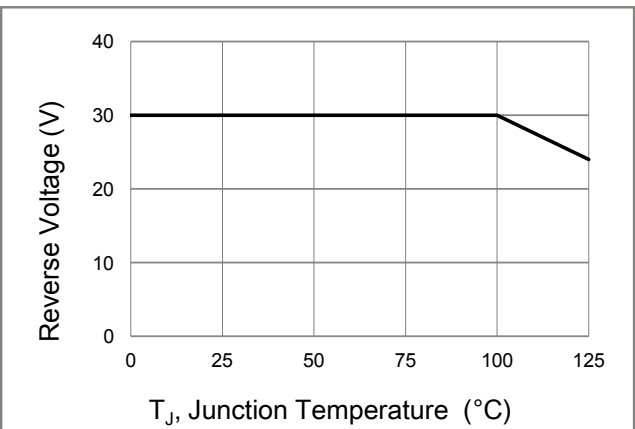
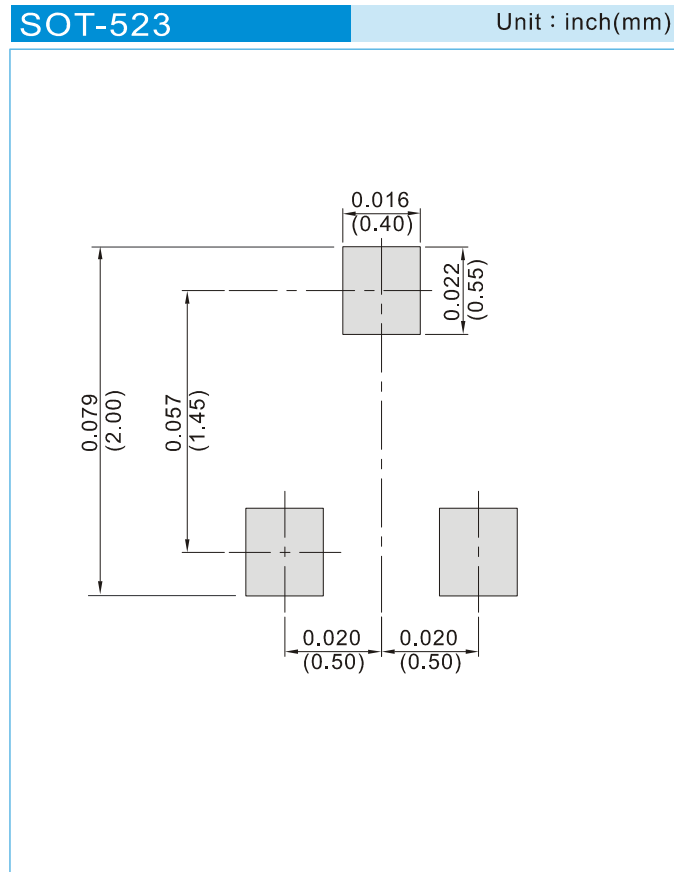


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



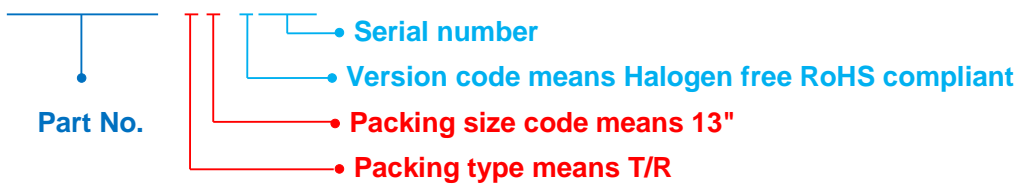
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Part No._packing code_Version

BAT54TB_R1_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code X		Serial number XXXX
Packing type	1 st Code	Packing size code	2 nd Code	HSF Level	1 st Code	2 nd _5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	Halogen free RoHS compliant	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS compliant	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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