



SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts

CURRENT 0.2 Amperes

FEATURES

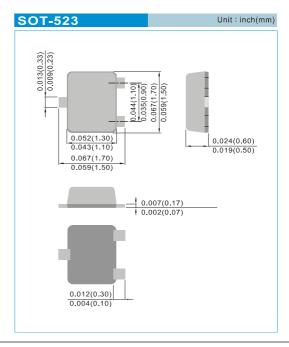
- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOT-523, Plastic

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

Approx. Weight: 0.002 gram

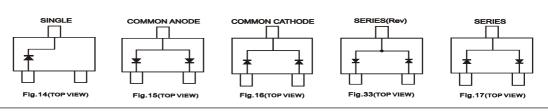


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAT54TB	BAT54ATB	BAT54CTB	BAT54RTB	BAT54STB	UNITS
Marking code	-	LV	LW	LX	LG	LY	-
Peak Repetitive Reverse Voltage	V _{RRM}	30					V
Average Forward Current	lo	0.2					
Peak Forward Surge Current, 1.0s (JEDEC method)	I _{FSM}	0.6					
Instantaneous Forward Voltage at IF=1mA at IF=100mA	V _F	V _F 0.32 1.0					
DC Reverse Current at Rated DC Blocking Voltage@VR=25V	I _R	2.0					
Typical Junction Capacitance at VR=0V, f=1.0MHz	C	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.







RATING AND CHARACTERISTIC CURVES

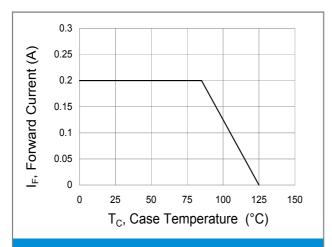


Fig.1 Forward Current Derating Curve

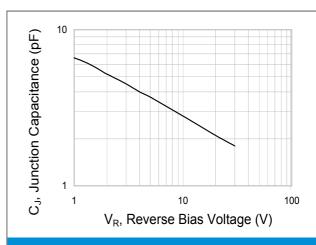


Fig.2 Typical Junction Capacitance

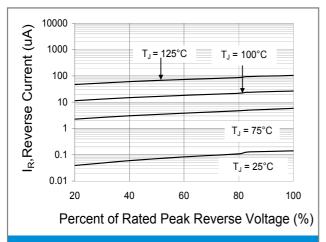


Fig.3 Typical Reverse Characteristics

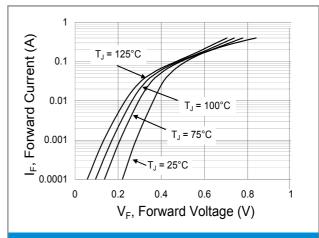
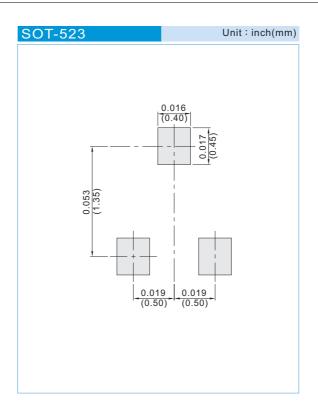


Fig.4 Typical Forward Characteristics





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)	A	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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