

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE

T 0.2 Ampere

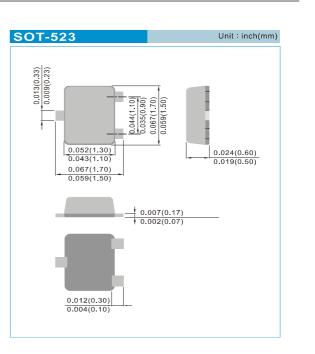
30 Volt CURRENT 0.2

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

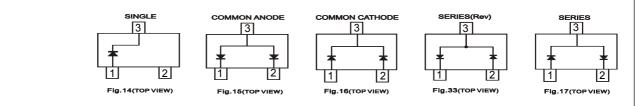


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAT54TB	BAT54ATB	BAT54CTB	BAT54RTB	BAT54STB	UNITS
Marking code		LV	LW	LX	LG	LY	-
Peak Repetitive Reverse Voltage	V _{RRM}	30					
Average Forward Current	lo	0.2					
Peak Forward Surge Current, 1s	I _{fsm}	0.6					
Instantaneous Forward Voltage at IF=1mA at IF=100mA	V _F	0.32 0.6					
DC Reverse Current at Rated DC Blocking Voltage@VR=25V	2						
pical Junction Capacitance at V _R =0V, f=1MHz C _J 10							pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	Røja	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.







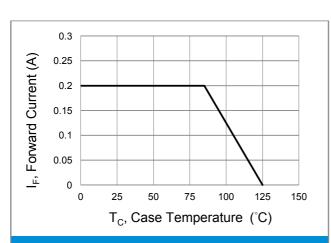


Fig.1 Forward Current Derating Curve

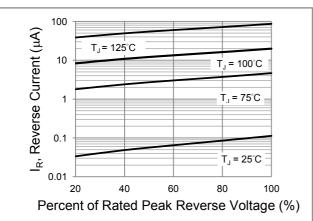
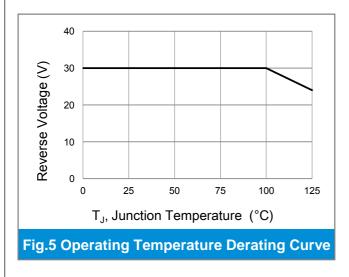


Fig.3 Typical Reverse Characteristics



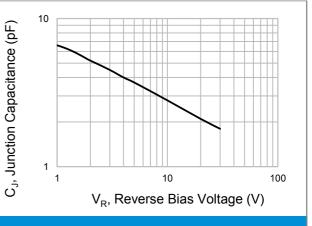


Fig.2 Typical Junction Capacitance

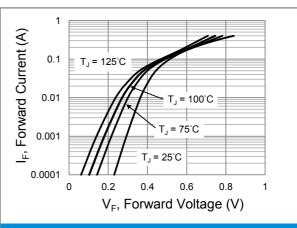
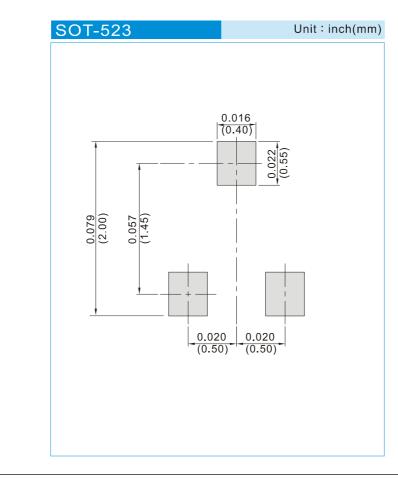


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

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





Part No_packing code_Version

BAT54TB_R1_00001

For example :

RB500V-40_R2_00001



Serial number -----

Version code means HF

- Packing size code means 13"
- Packing type means T/R

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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