



### SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts

CURRENT 0.2 Amperes

#### **FEATURES**

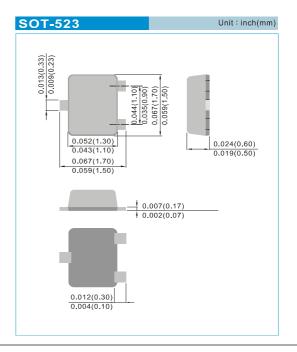
- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### **MECHANICAL DATA**

Case: SOT-523, Plastic

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

Approx. Weight: 0.002 gram

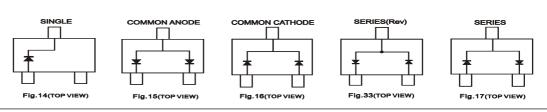


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAT54TB	BAT54ATB	BAT54CTB	BAT54RTB	BAT54STB	UNITS
Marking code	-	LV	LW	LX	LG	LY	-
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30					٧
Average Forward Current	lo	0.2					Α
Peak Forward Surge Current, 1.0s (JEDEC method)	I <sub>FSM</sub>	0.6					Α
Instantaneous Forward Voltage at Ir=1mA at Ir=100mA	V <sub>F</sub>	0.32 1.0					٧
DC Reverse Current at Rated DC Blocking Voltage@VR=25V	I <sub>R</sub>	2.0					μΑ
Typical Junction Capacitance at VR=0V, f=1.0MHz	C	10					pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	RөJA	833					°C/W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +125					°C
Circuit Figure	-	Single	Common Anode	Common Cathode	Series (Rev)	Series	-

#### Note:

1. Mounted on minimum pad layout.

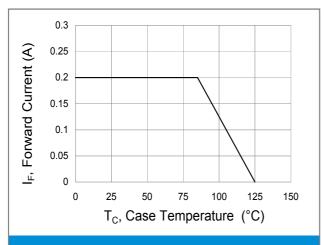


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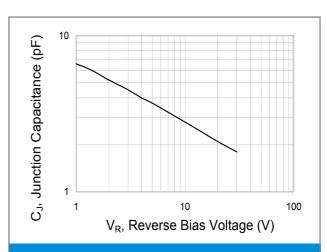




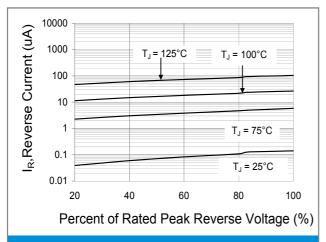
### **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 



**Fig.3 Typical Reverse Characteristics** 

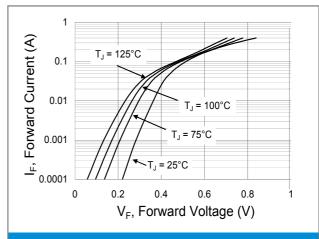


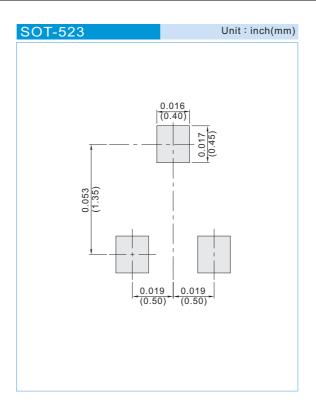
Fig.4 Typical Forward Characteristics

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#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

· Packing information

T/R - 4K per 7" plastic Reel

### **LEGAL STATEMENT**

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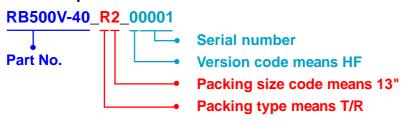
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### For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
T/B	Α	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	В	13"	2			
T/P	Т	26mm	Х			
TRR	S	52mm	Υ			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

### Part No\_packing code\_Version

BAT54TB\_R1\_00001 BAT54TB\_R2\_00001

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