



#### SURFACE MOUNT SCHOTTKY BARRIER

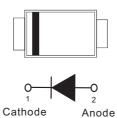
VOLTAGE 30 Volt CURRENT 0.20 Ampere

#### **FEATURES**

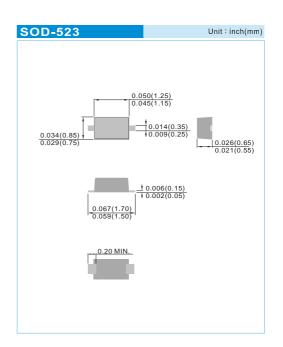
- · Low turn-on voltage
- · Fast switching
- PN junction guard ring for transient and ESD protection
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- · Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0001 ounces, 0.0014 grams
- Polarity: Color band denotes cathode end
- Marking: L4



Anode



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Maximum Average Forward Current at T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	0.2	Α
Peak Forward Surge Current, 1s single half sine-wave superimposed on rated load	I <sub>FSM</sub>	0.6	А
Maximum Instantaneous Forward Voltage @ I F=1mA @I F=100mA	V <sub>F</sub>	0.32 0.6	V
Maximum DC Reverse Current at Rated DC Blocking Voltage@V <sub>R</sub> =25V	I <sub>R</sub>	2	μΑ
Junction Capacitance at V <sub>R</sub> =1V	C <sub>1</sub>	10	pF
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	667	°C/ W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +125	°C

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#### TYPICAL CHARACTERISTIC CURVES

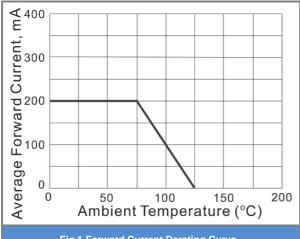


Fig.1 Forward Current Derating Curve

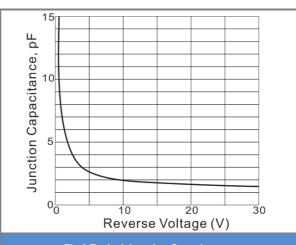


Fig.2 Typical Junction Capacitance

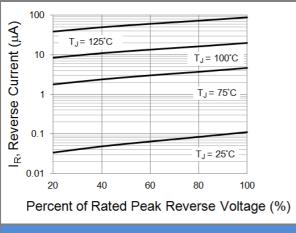


Fig.3 Typical Reverse Characteristics

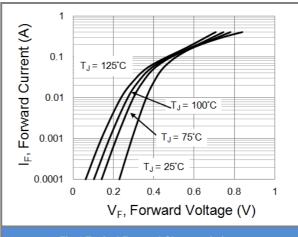


Fig.4 Typical Forward Characteristics

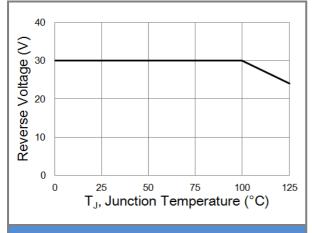
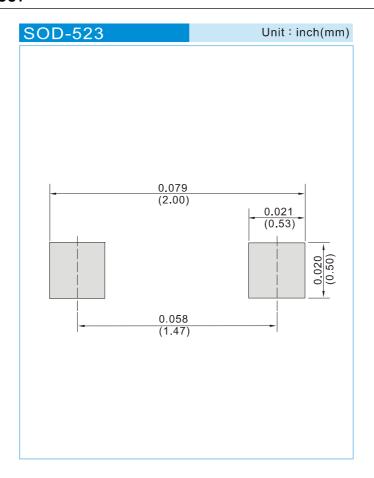


Fig.5 Operating Temperature Derating Curve





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





### Part No\_packing code\_Version

BAT54TS\_R1\_00001 BAT54TS\_R2\_00001

### 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	
Tape and Ammunition Box (T/B)	Α	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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