



## **BAT54 SERIES**

### SURFACE MOUNT SCHOTTKY BARRIER

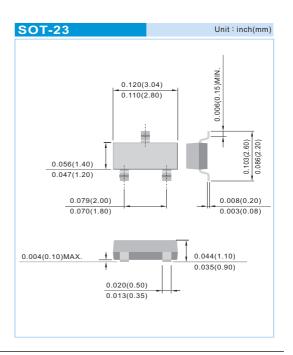
VOLTAGE 30 Volts CURRENT 0.2 Ampers

### **FEATURES**

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
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### **MECHANICAL DATA**

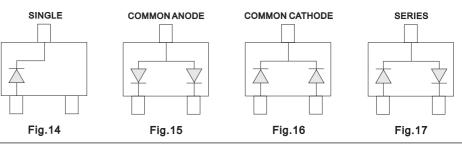
- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0003 ounces, 0.0084 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Units
Marking code	-	L4	L42	L43	L44	-
Forward Power Dissipation@Ta=25°C	P <sub>D</sub>	225			mW	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30				V
Maximum Average Forward Current at TA=75°C	Io	0.2				А
Repetitive Peak Forward Current(tp=8.3ms,50%Duty Cycle)	I <sub>FRM</sub>	300				mA
Peak Forward Surge Current, 1.0s (JEDEC method)	I <sub>FSM</sub>	0.6				А
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> =1mA @ I <sub>F</sub> =100mA	V <sub>F</sub>	0.32 0.8				٧
	I <sub>R</sub>	2.0				uA
Junction Capacitance at V <sub>R</sub> =1V	C	10				pF
Thermal Resistance, Junction to Ambient	R <sub>eJA</sub>	500				°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	-

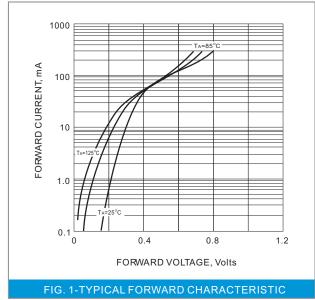


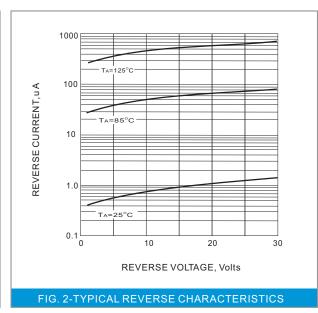
May 20,2011-REV.04 PAGE . 1

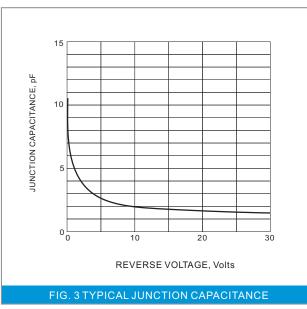


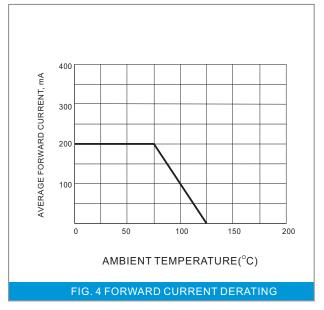


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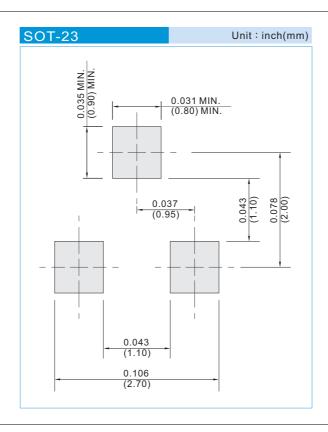
May 20,2011-REV.04 PAGE . 2





## **BAT54 SERIES**

### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

### **LEGAL STATEMENT**

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May 20,2011-REV.04 PAGE . 3