



#### SURFACE MOUNT SCHOTTKY BARRIER

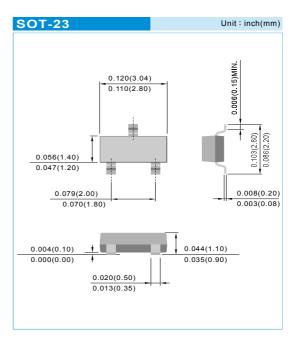
VOLTAGE 30 Volts CURRENT 0.2 Amperes

#### **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**

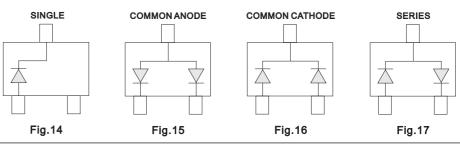
- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0003 ounces, 0.0084 grams



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

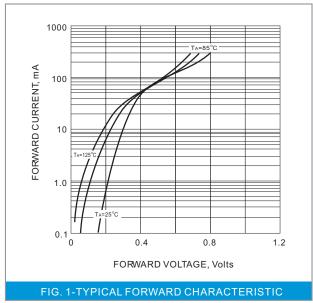
Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

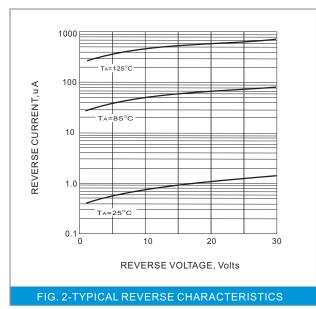
Parameter	Symbol	BAT54	BAT54A	BAT54C	BAT54S	Units
Marking code	-	L4	L42	L43	L44	-
Forward Power Dissipation@Ta=25°C	P <sub>D</sub>		mW			
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		V			
Maximum Average Forward Current at TA=75°C	I <sub>o</sub>		А			
Repetitive Peak Forward Current(tp=8.3ms,50%Duty Cycle)	I <sub>FRM</sub>		mA			
Peak Forward Surge Current, 1.0s (JEDEC method)	I <sub>FSM</sub>		А			
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> =1mA @ I <sub>F</sub> =100mA	V <sub>F</sub>		٧			
	I <sub>R</sub>		uA			
Junction Capacitance at V <sub>R</sub> =1V	C		pF			
Thermal Resistance, Junction to Ambient	R <sub>eJA</sub>		°C/W			
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>		°C			
Circuit Figure	-	Single	Common Anode	Common Cathode	Series	-

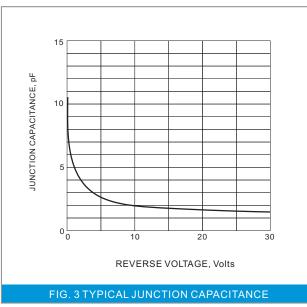


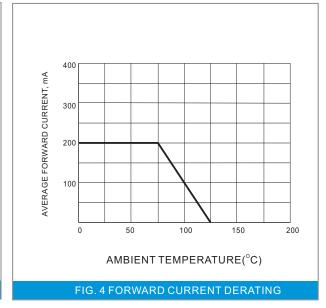








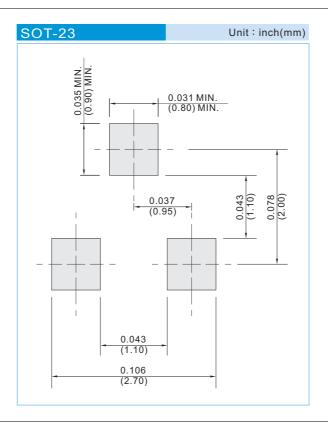








#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

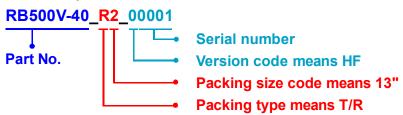




### Part No\_packing code\_Version

BAT54\_R1\_00001 BAT54\_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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