



### SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts

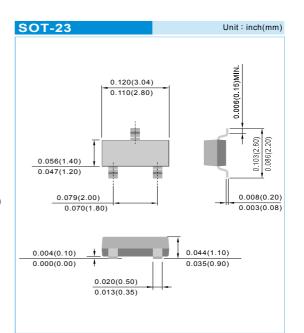
CURRENT 0.2 Amperes

#### FEATURES

- · Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Acqire quality system certificate : TS16949
- · AEC-Q101 qualified
- · Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

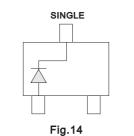
- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.0084 grams

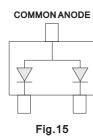


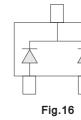
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

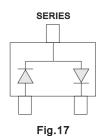
Parameter	Symbol	BAT54-AU	BAT54A-AU	BAT54C-AU	BAT54S-AU	Units	
Marking code	-	L4	L42	L43	L44	-	
Forward Power Dissipation@Ta=25°C	P <sub>D</sub>	225					
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30					
Maximum Average Forward Current at TA=75°C	I <sub>o</sub>	0.2					
Repetitive Peak Forward Current(tp=8.3ms,50%Duty Cycle)	I <sub>frm</sub>	300					
Peak Forward Surge Current, 1.0s (JEDEC method)	I <sub>fsm</sub>	0.6					
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> =1mA @ I <sub>F</sub> =100mA	V <sub>F</sub>			V			
Maximum DC Reverse Current at Rated DC Blocking Voltage@V $_{\rm R}$ =25V	I <sub>R</sub>			uA			
Junction Capacitance at V <sub>R</sub> =1V	C	10					
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>	-55 TO +125					
Circuit Figure	-	Single	Common Anode	Common Cathode	Series	-	







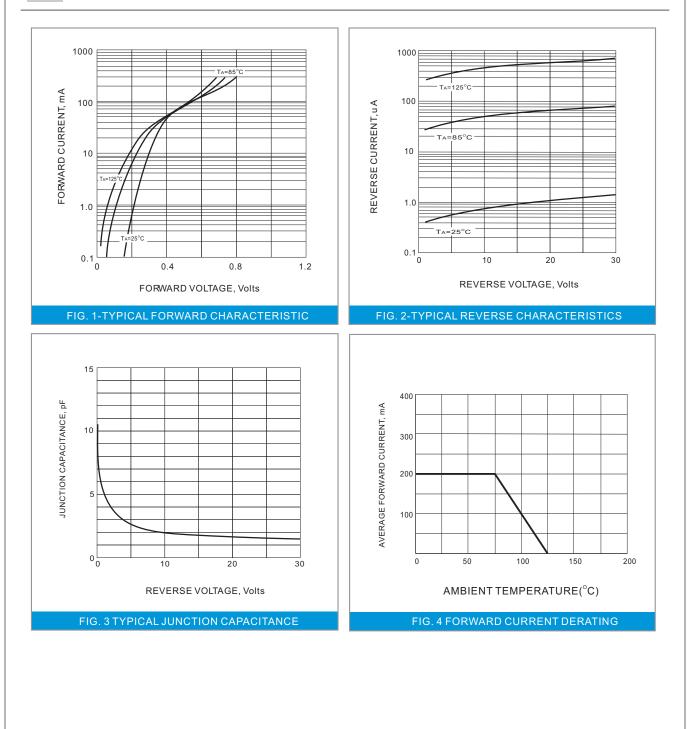
COMMON CATHODE







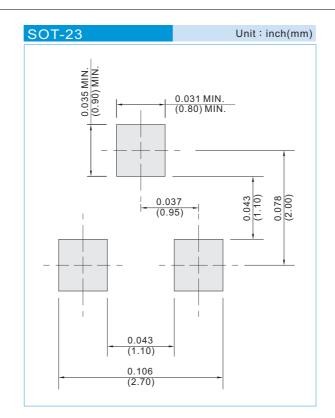
# BAT54!51 SERIES





# **BAT54!51 SERIES**

### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

 Packing information T/R - 12K per 13" plastic Reel T/R - 3K per 7" plastic Reel





## For example :

BAT54-AU\_R1\_000A1 BAT54-AU\_R2\_000A1

## RB500V-40\_R2\_00001



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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