



# BAT54W SERIES

## 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 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

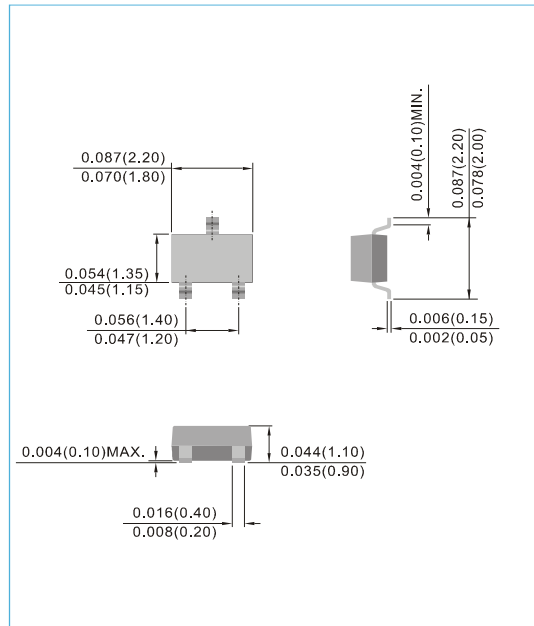
Case: SOT-323, Plastic

Terminals:Solderable per MIL-STD-750,Method2026

Approx. Weight: 0.0002 ounces, 0.005 grams

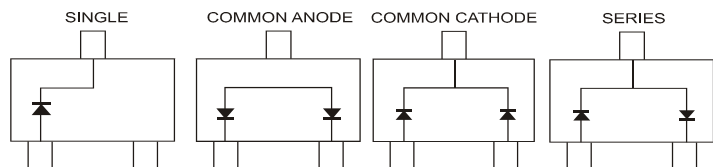
### SOT-323

Unit : inch(mm)



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

PARAMETER	SYMBOL	BAT54W	BAT54AW	BAT54CW	BAT54SW	UNITS
Marking Code	-	L4	L42	L43	L44	-
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30				V
Maximum Average Forward Current at Ta=75°C	I <sub>F(AV)</sub>	0.2				A
Peak Forward Surge Current, 1.0s (JEDEC method)	I <sub>FSM</sub>	0.6				A
Maximum Instantaneous Forward Voltage I <sub>F</sub> =1mA I <sub>F</sub> =100mA	V <sub>F</sub>	0.32 1.00				V
Power Dissipation	P <sub>D</sub>	200				mW
Maximum DC Reverse Current at Rated DC Blocking Voltage@VR=25V	I <sub>R</sub>	2.0				uA
Junction Capacitance :at VR=1V	C <sub>J</sub>	10				pF
Thermal Resistance, Junction to Ambient	R <sub>QJA</sub>	635				°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	





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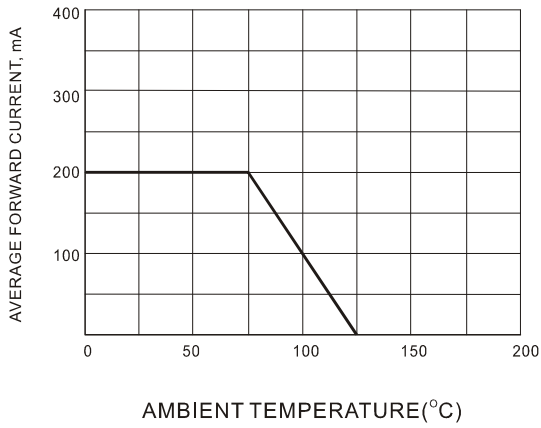


FIG. 1 FORWARD CURRENT DERATING

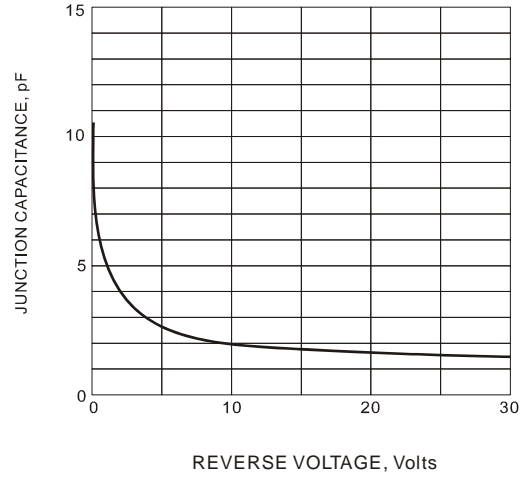


FIG. 2 TYPICAL JUNCTION CAPACITANCE

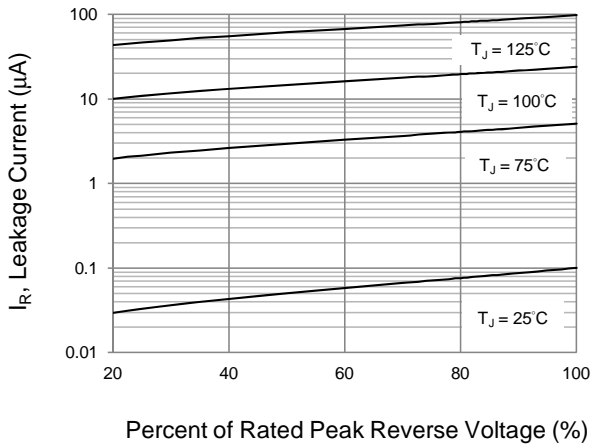


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

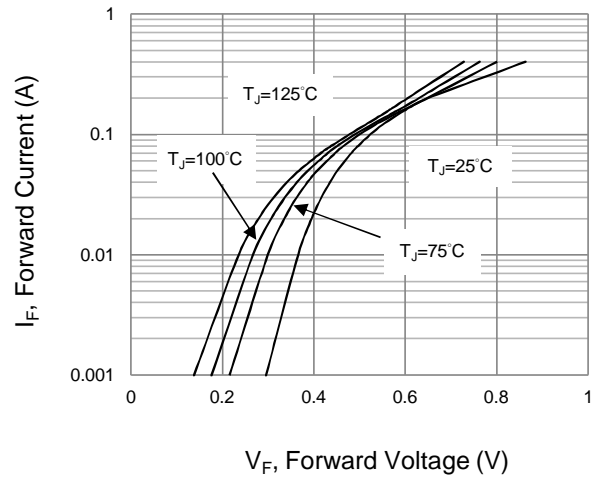


FIG. 4-TYPICAL FORWARD CHARACTERISTIC

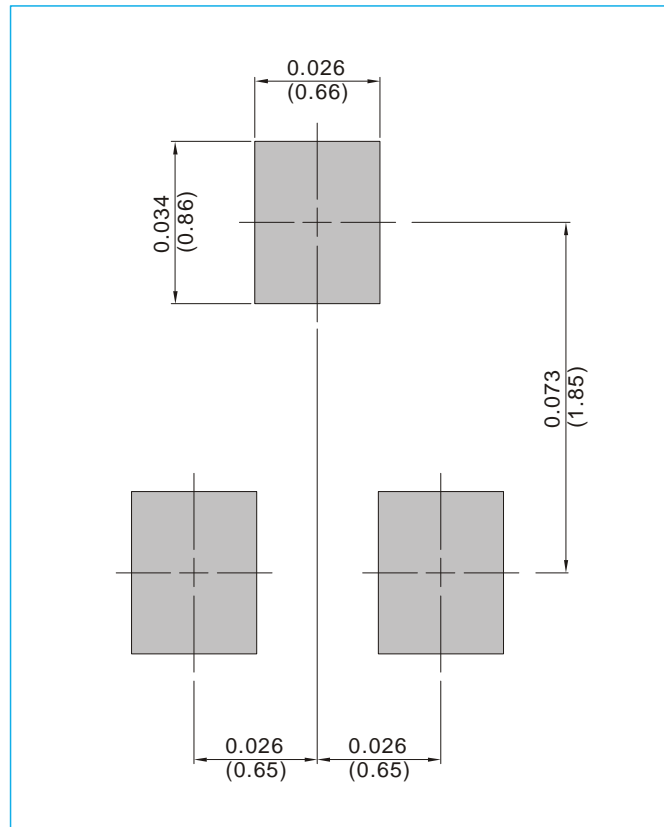


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## MOUNTING PAD LAYOUT

**SOT-323**

Unit : inch(mm)



## ORDER INFORMATION

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



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## Part No\_packing code\_Version

BAT54W\_R1\_00001

BAT54W\_R2\_00001

For example :

**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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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