

BAT54W SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volt **CURRENT** 0.2 Ampere

FEATURES

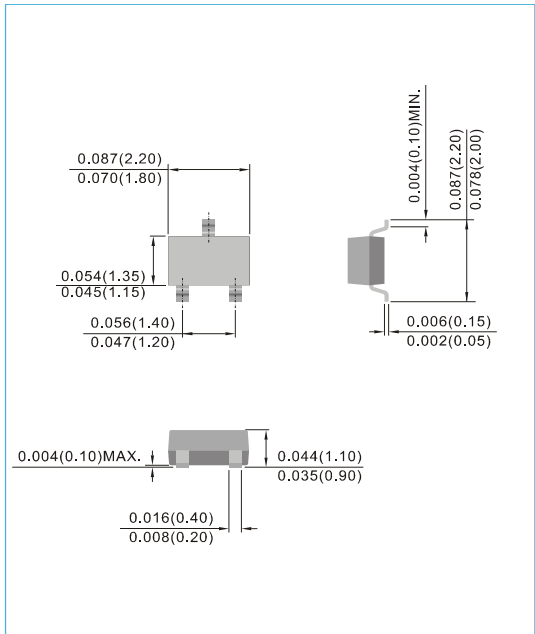
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams

SOT-323

Unit : inch(mm)



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

PARAMETER	SYMBOL	BAT54W	BAT54AW	BAT54CW	BAT54SW	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	30				V
Maximum Average Forward Current	I _{F(AV)}	0.2				A
Peak Forward Surge Current, 1s	I _{FSM}	0.6				A
Maximum Instantaneous Forward Voltage I _F =1mA I _F =100mA	V _F	0.32 0.6				V
Power Dissipation	P _D	200				mW
Maximum DC Reverse Current at Rated DC Blocking Voltage @ V _R =25V	I _R	2				μA
Junction Capacitance : at V _R =1V	C _J	10				pF
Thermal Resistance, Junction to Ambient	R _{θJA}	635				°C/ W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +125				°C
Circuit Figure		Single	Common Anode	Common Cathode	Series	

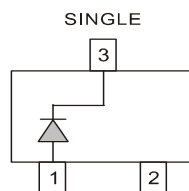


FIG.14(TOP VIEW)

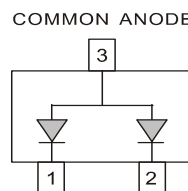


FIG.15(TOP VIEW)

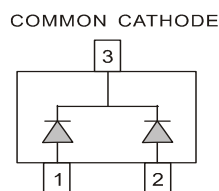


FIG.16(TOP VIEW)

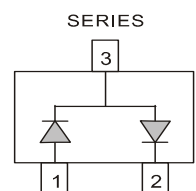


FIG.17(TOP VIEW)

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TYPICAL CHARACTERISTIC CURVES

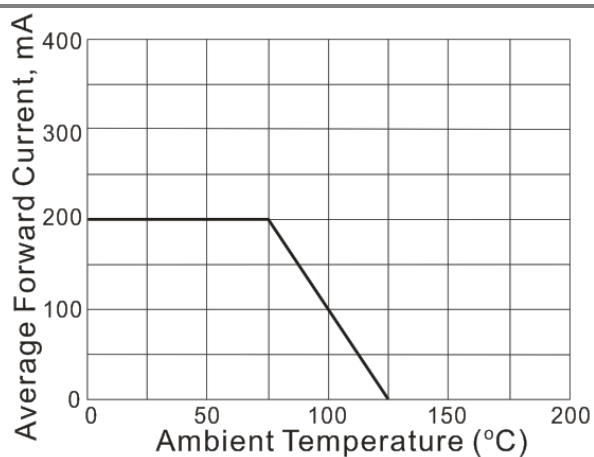


Fig.1 Forward Current Derating Curve

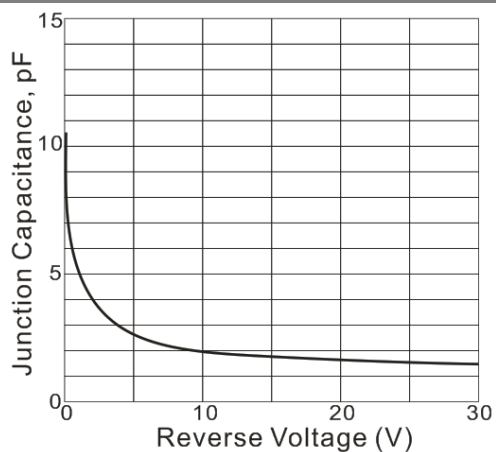


Fig.2 Typical Junction Capacitance

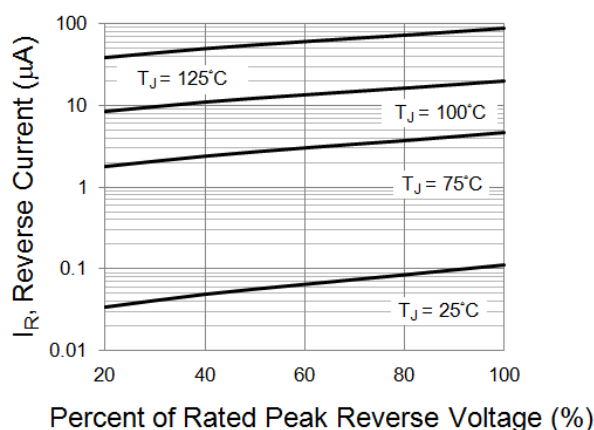


Fig.3 Typical Reverse Characteristics

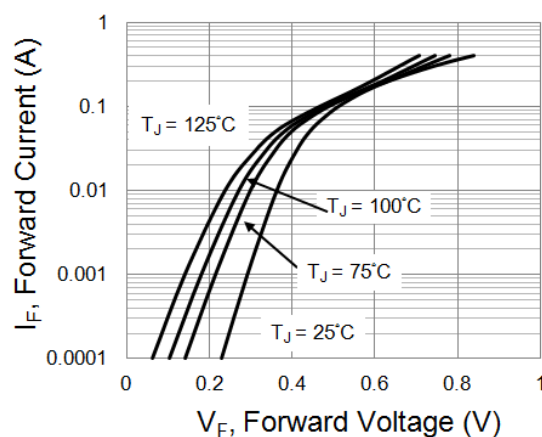


Fig.4 Typical Forward Characteristics

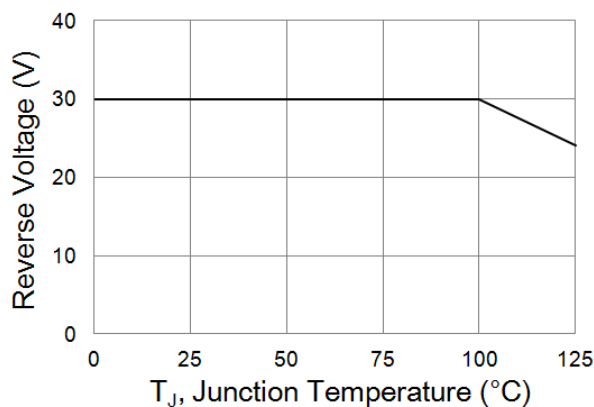


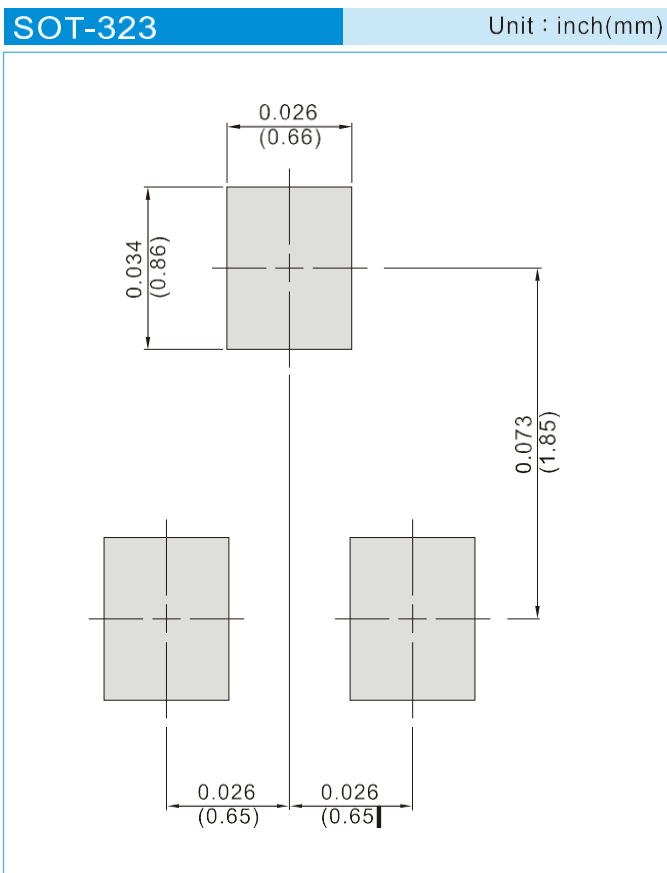
Fig.5 Operating Temperature Derating Curve

BAT54W SERIES

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAT54W	SOT-323	3K pcs / 7" reel	L4
BAT54W	SOT-323	12K pcs / 13" reel	L4
BAT54AW	SOT-323	3K pcs / 7" reel	L42
BAT54AW	SOT-323	12K pcs / 13" reel	L42
BAT54CW	SOT-323	3K pcs / 7" reel	L43
BAT54CW	SOT-323	12K pcs / 13" reel	L43
BAT54SW	SOT-323	3K pcs / 7" reel	L44
BAT54SW	SOT-323	12K pcs / 13" reel	L44

Mounting Pad Layout



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