BAT54W SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volt **CURRENT** 0.2 Ampere

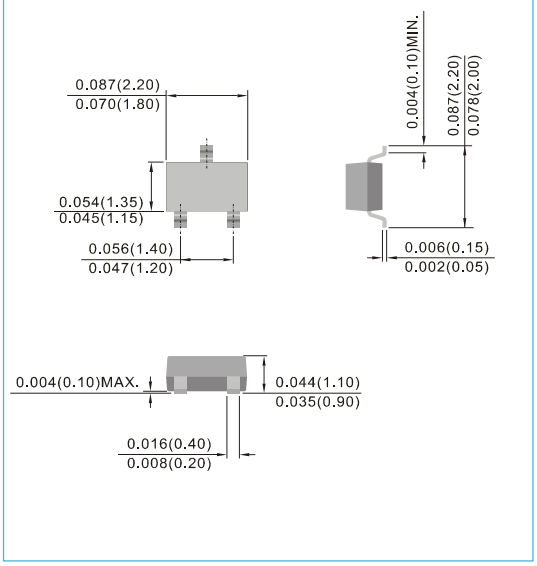
FEATURES

- 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,Method2026
- 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	$R_{\theta JA}$	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	

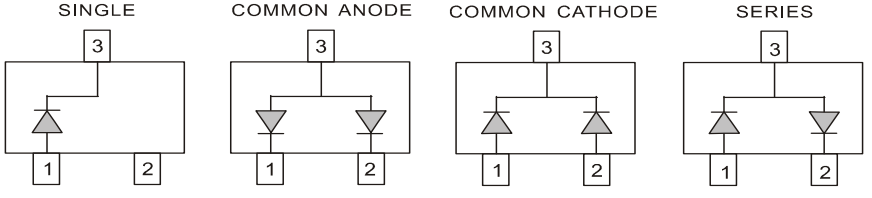


FIG.14(TOP VIEW) FIG.15(TOP VIEW) FIG.16(TOP VIEW) FIG.17(TOP VIEW)

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TYPICAL CHARACTERISTIC CURVES

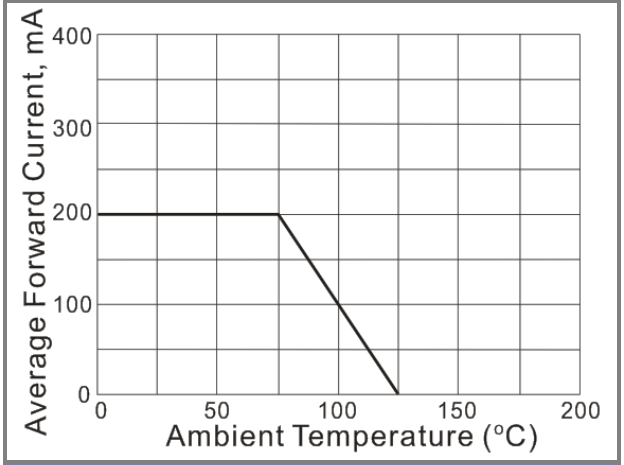


Fig.1 Forward Current Derating Curve

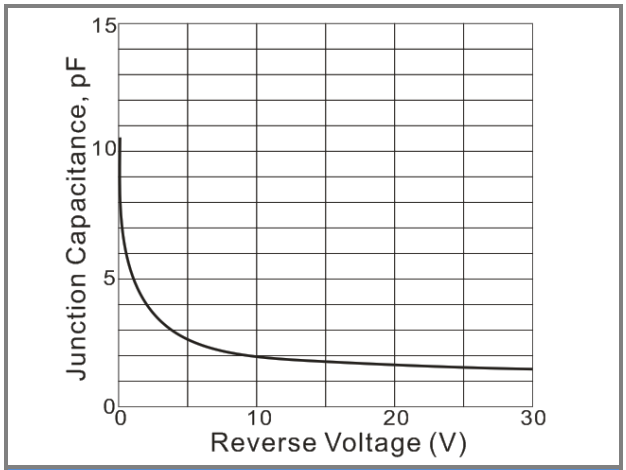


Fig.2 Typical Junction Capacitance

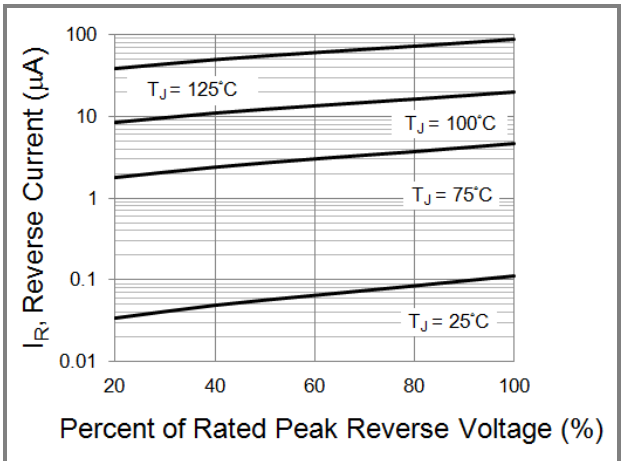


Fig.3 Typical Reverse Characteristics

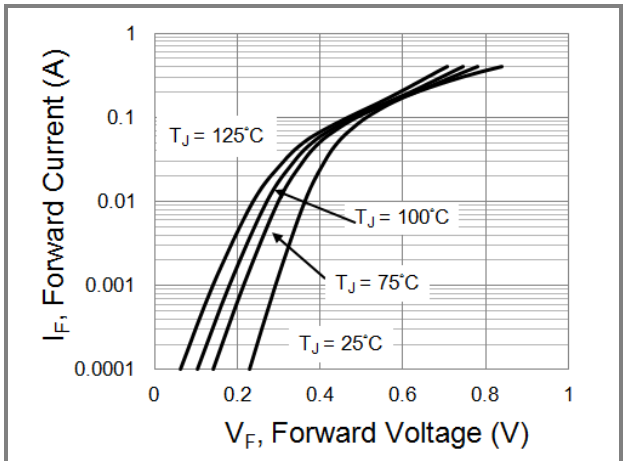


Fig.4 Typical Forward Characteristics

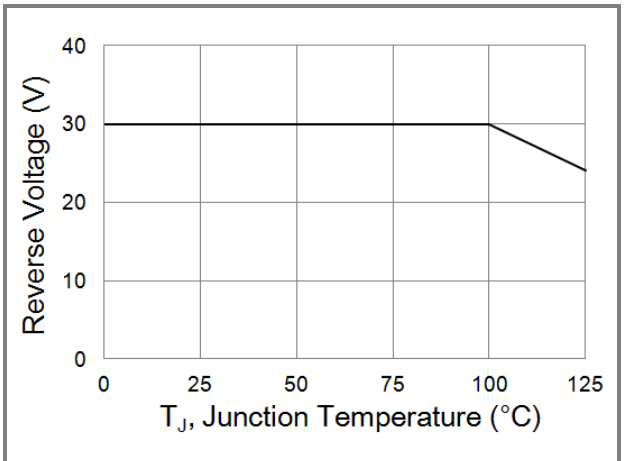


Fig.5 Operating Temperature Derating Curve

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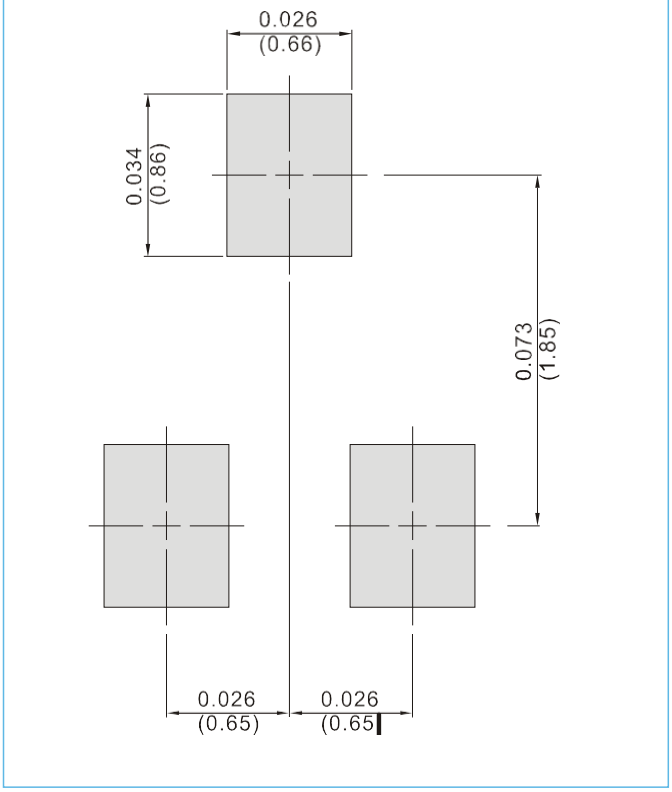
BAT54W SERIES

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

SOT-323 Unit : inch(mm)



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