

BAT42WS, BAT43WS, BAT54WS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30 Volts

CURRENT 0.2 Amperes

PACKAGE SOD-323

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.

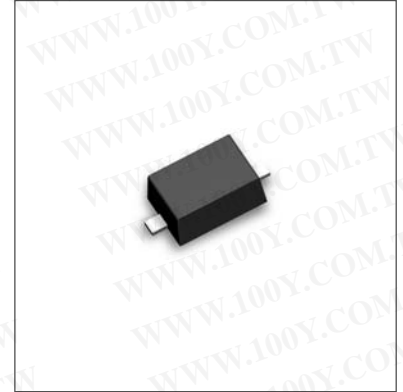
MECHANICAL DATA

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram

Marking: L2, L3, L4



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

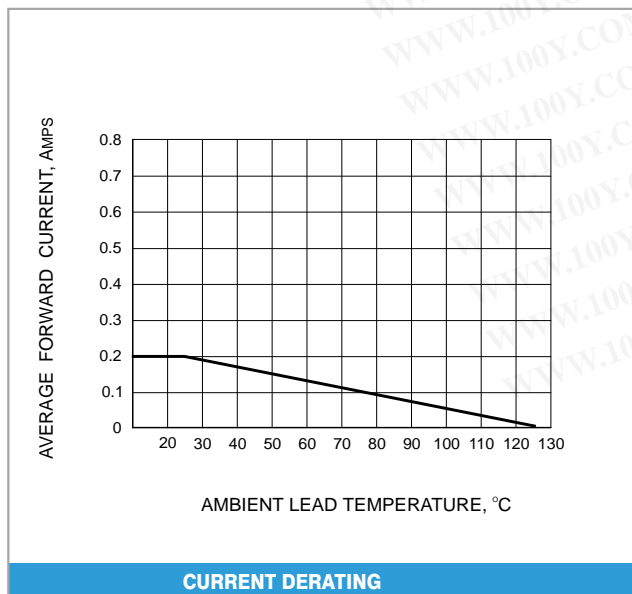
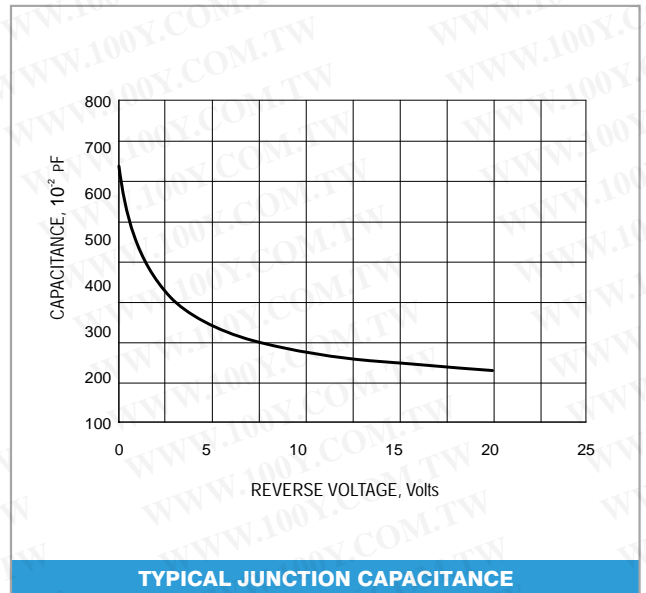
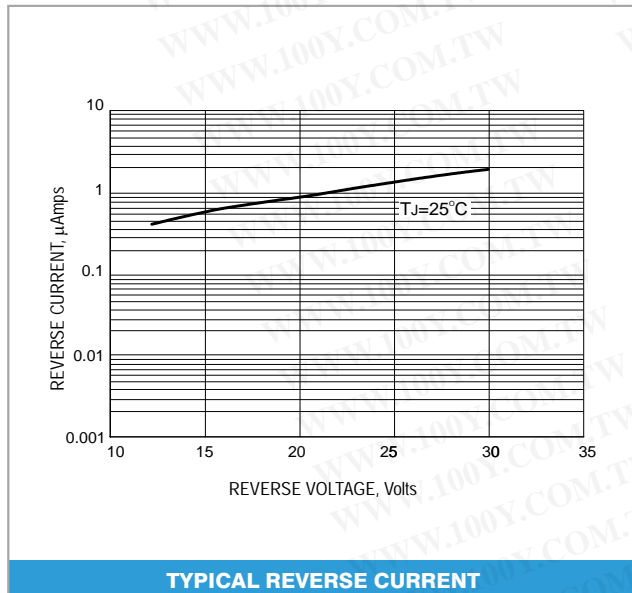
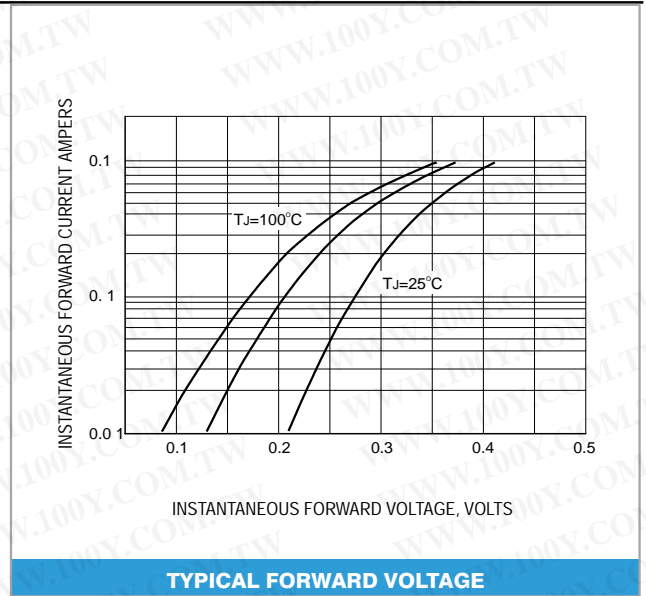
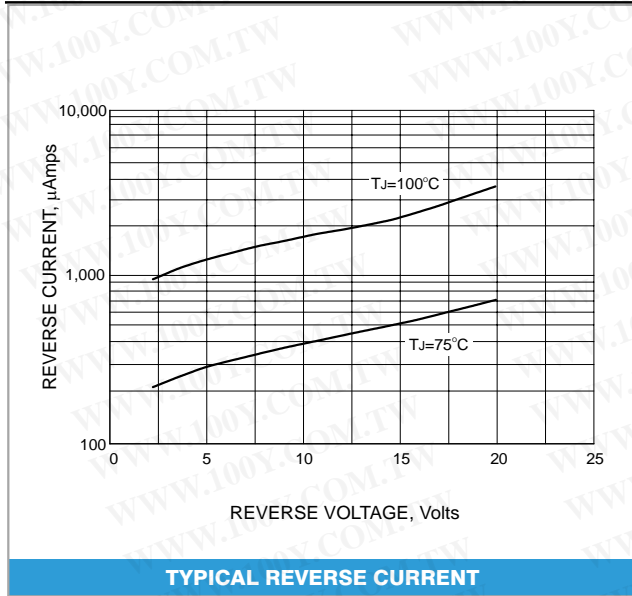
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

勝特力材料 886-3-5753170
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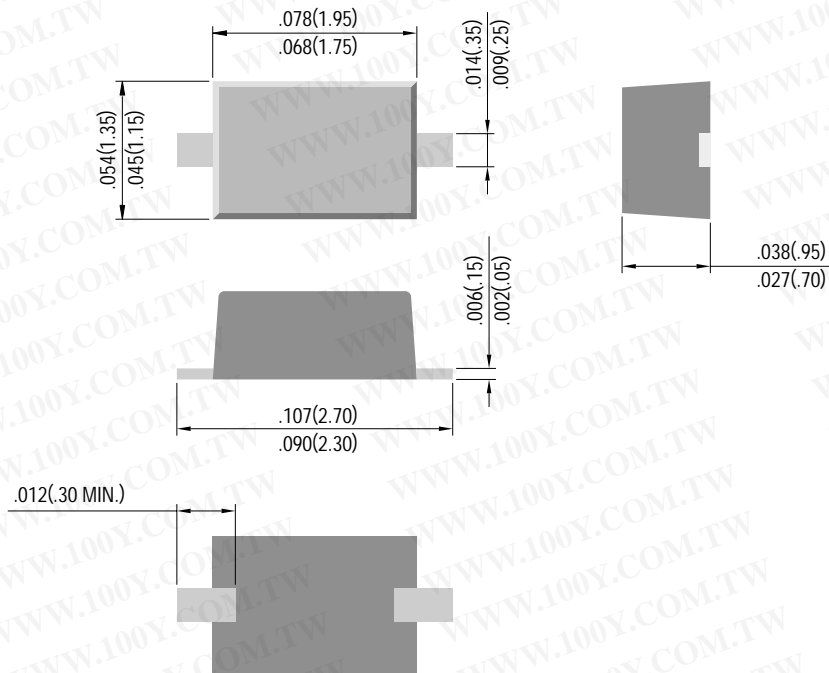
Parameter	Symbol	BAT42WS	BAT43WS	BAT54WS	Units
Peak Repetitive Reverse Voltage	V _{RRM}	30	30	30	V
Maximum Average Forward Current at Ta=25°C	I _o	0.2	0.2	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	4.0	4.0	0.6	A
Maximum Instantaneous Forward Voltage	V _F	0.4 @ I _F =0.01A 1.0 @ I _F =0.2A	0.33 @ I _F =0.002A 1.0 @ I _F =0.2A	0.32 @ I _F =0.001A 1.0 @ I _F =0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.5 @ V _R =30V	0.5 @ V _R =30V	2.0 @ V _R =25V	μA
Thermal Resistance, Junction to Ambient Air	R _{θJA}		635		°C / W
Operating Junction Temperature Range	T _J		-55 TO +125		°C
Storage Temperature Range	T _{STG}		-55 TO +125		°C



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