

# BAT54W, BAT54AW, BAT54CW, BAT54SW

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 30 Volts

**CURRENT** 0.2 Ampers

**PACKAGE** SOT-323

### FEATURES

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

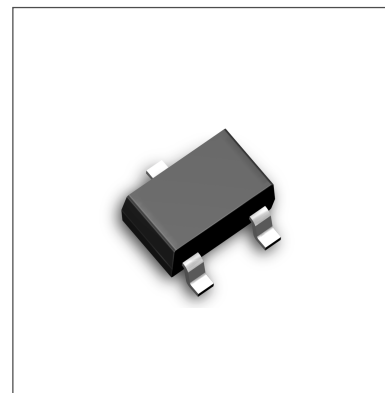
### MECHANICAL DATA

Case: SOT-323, Plastic

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

Approx. Weight: 0.008 gram

Marking: L4, L42, L43, L44



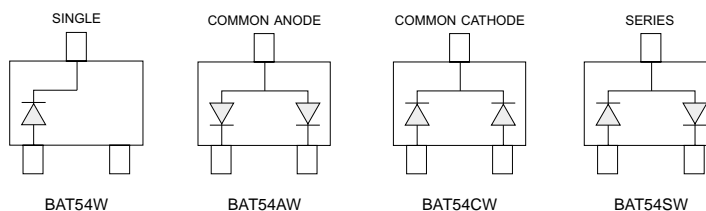
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

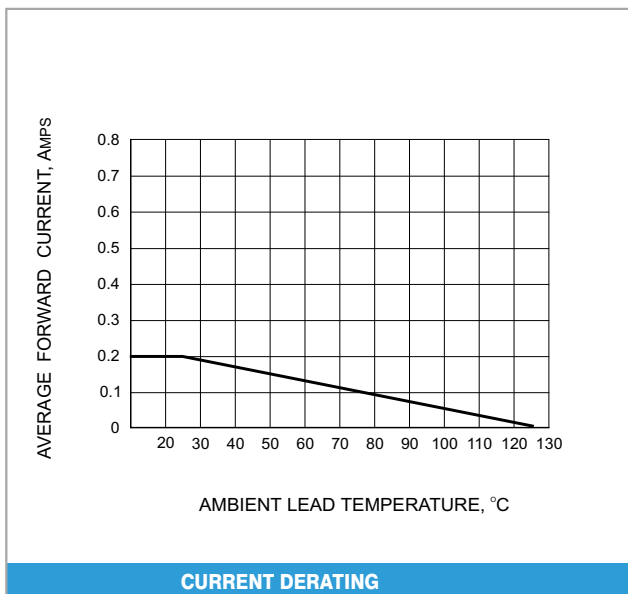
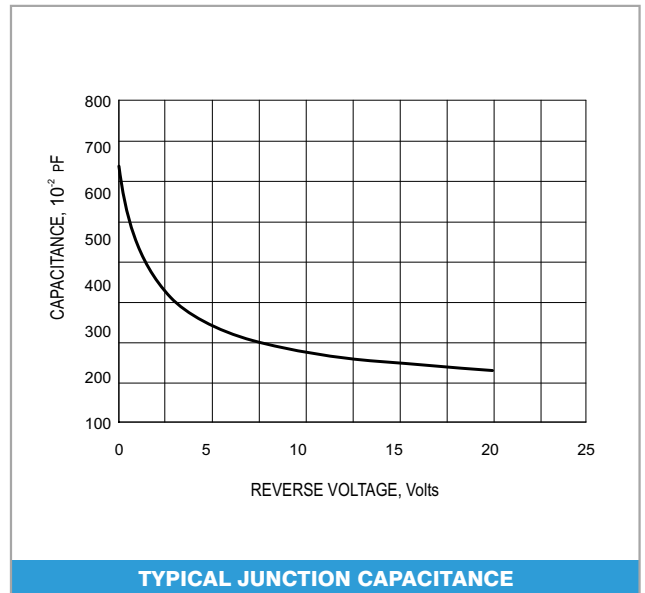
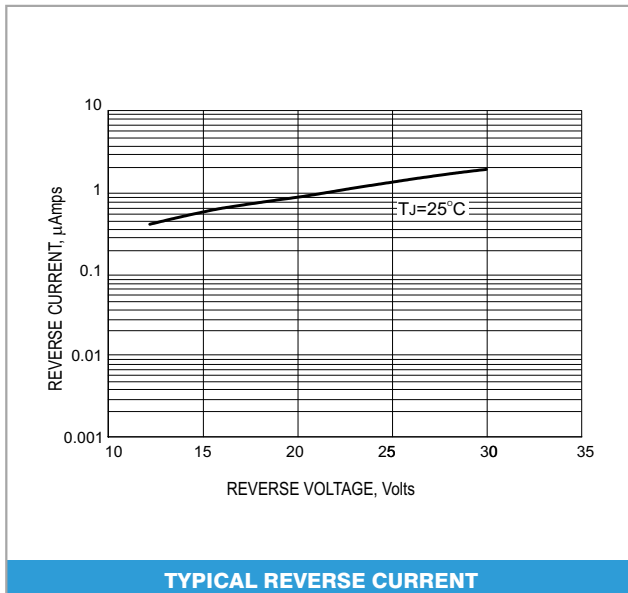
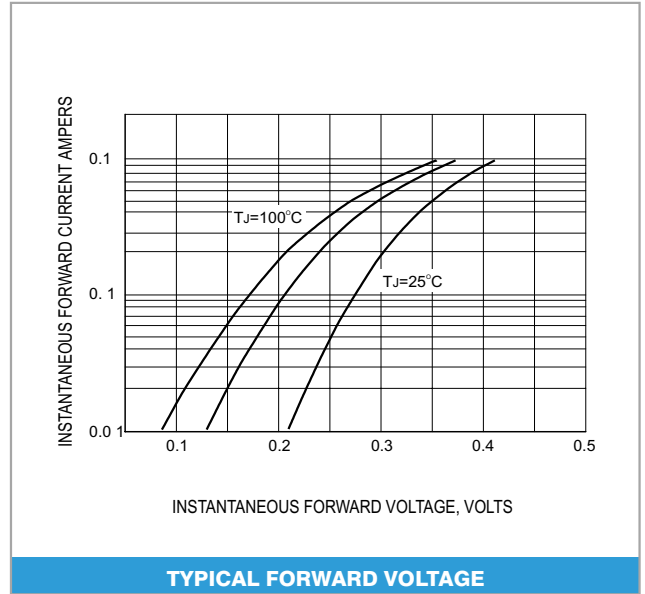
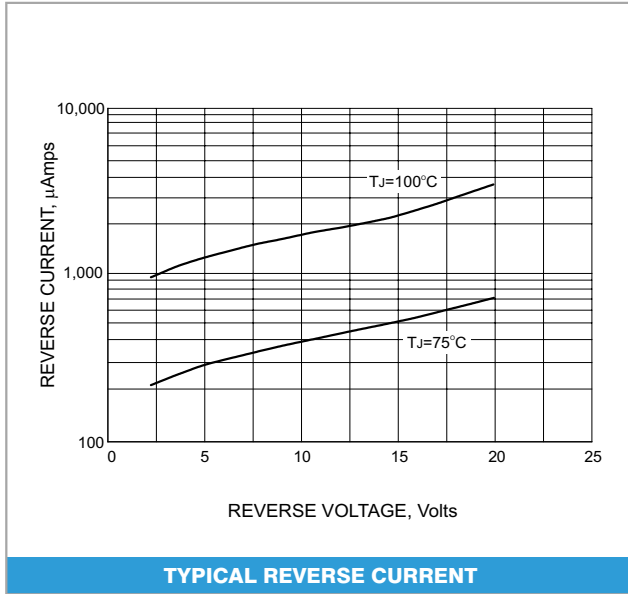
For capacitive load, derate current by 20%.

Parameter	Symbol	BAT54W	BAT54AW	BAT54CW	BAT54SW	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	30	30	30	V
Maximum Average Forward Current at $T_a=25^{\circ}\text{C}$	$I_o$	0.2	0.2	0.2	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	0.6	0.6	0.6	0.6	A
Maximum Instantaneous Forward Voltage	$V_F$	0.32 @ $I_F=0.001\text{A}$ 1.0 @ $I_F=0.1\text{A}$				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.002 @ $V_R=25\text{V}$				mA
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	635				$^{\circ}\text{C} / \text{W}$
Operating Junction Temperature Range	$T_J$	-55 TO +125				$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55 TO +125				$^{\circ}\text{C}$



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