

### FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* High surge current capability

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

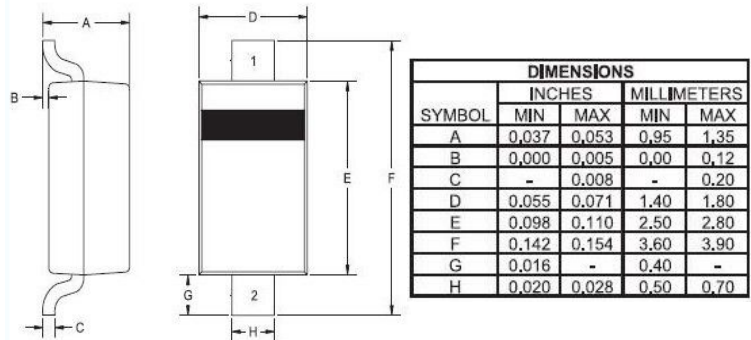
### VOLTAGE RANGE

60-100 Volts

### CURRENT

1.0 Ampere

SOD123



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

TYPE NUMBER	B16W	B110W	UNITS
Maximum Recurrent Peak Reverse Voltage	60	100	V
Maximum RMS Voltage	42	70	V
Maximum DC Blocking Voltage	60	100	V
Maximum Average Forward Rectified Current	1.0		A
See Fig. 1			
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	25		A
Maximum Instantaneous Forward Voltage at 1.0A	0.7	0.85	V
Maximum DC Reverse Current Ta=25°C	0.02		mA
at Rated DC Blocking Voltage Ta=100°C	5		mA
Typical Junction Capacitance (Note1)	30		pF
Typical Thermal Resistance R JA (Note 2)	400		°C/W
Operating Temperature Range Tj	-65 — +150		°C
Storage Temperature Range Tstg	-65 — +150		°C

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

## RATING AND CHARACTERISTIC CURVES (B16W-B110W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

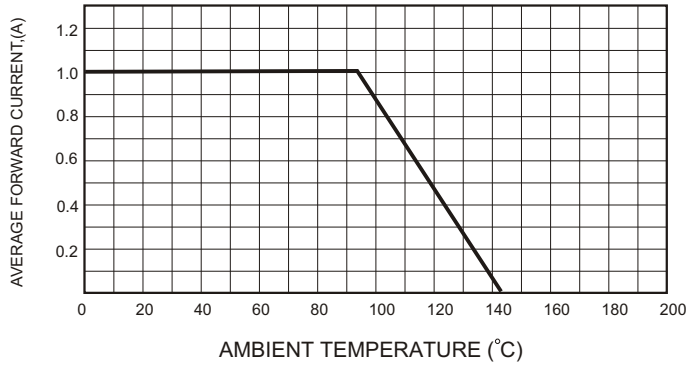


FIG.2-TYPICAL FORWARD CHARACTERISTICS

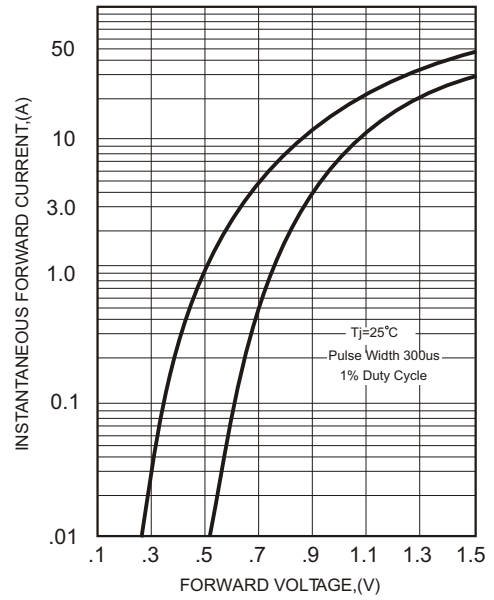


FIG.3 - Power Derating Curve

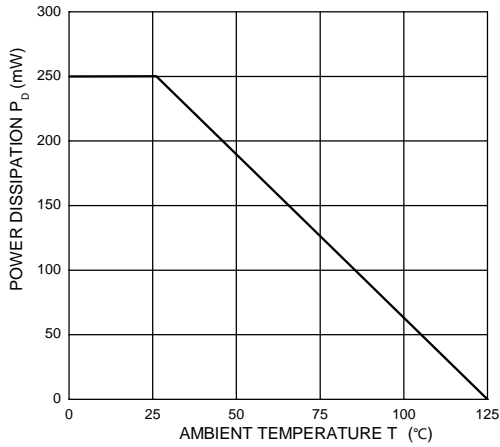


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

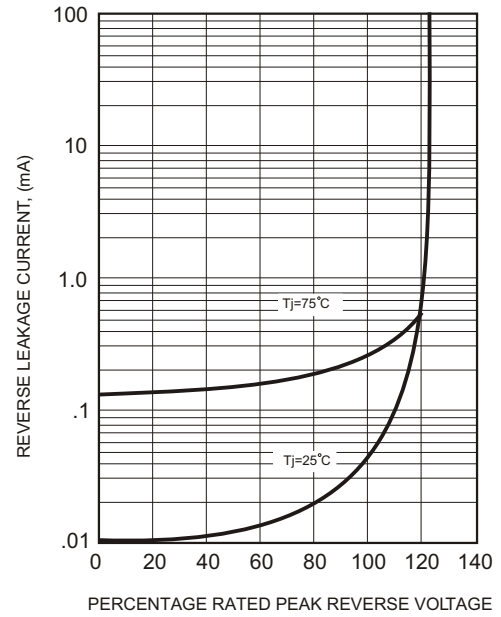


FIG.4-TYPICAL JUNCTION CAPACITANCE

