

## Features

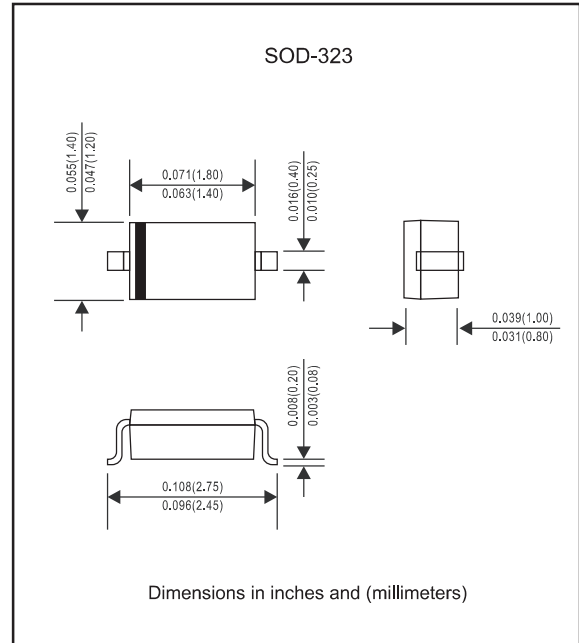
- ▶ For use in low voltage, high frequency inverters
- ▶ Free wheeling, and polarity protection applications

## Mechanical data

- ▶ **Case:** JEDEC SOD-323 molded plastic body
- ▶ **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- ▶ **Polarity:** Color band denotes cathode end
- ▶ **Mounting Position:** Any



## Package outline



## Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbols	B16WS	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	60	V
Maximum RMS voltage	$V_{RMS}$	42	V
Maximum DC blocking voltage	$V_{DC}$	60	V
Continuous forward current	$I_F$	1	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.1 @ $V_R=60V$	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	10	A
Maximum Instantaneous Forward Voltage	$V_F$	0.7 @ $I_F=1.0A$	V
Total capacitance $V_R=4V, f=1MHz$	$C_{tot}$	120	pF
Total power dissipation	$P_{tot}$	250	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	$^\circ\text{C}/W$
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 ~ +150	$^\circ\text{C}$

## Rating and characteristic curves

Fig.1 Power Derating Curve

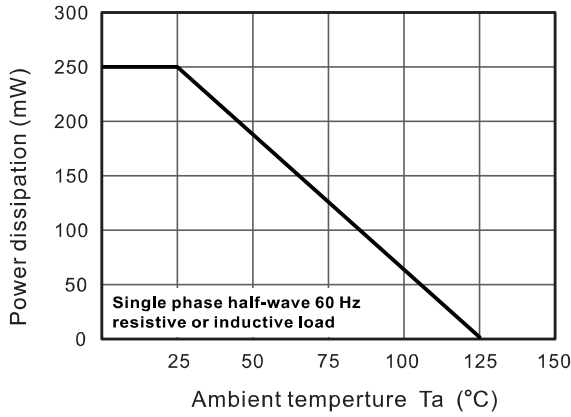


Fig.2 Typical Reverse Characteristics

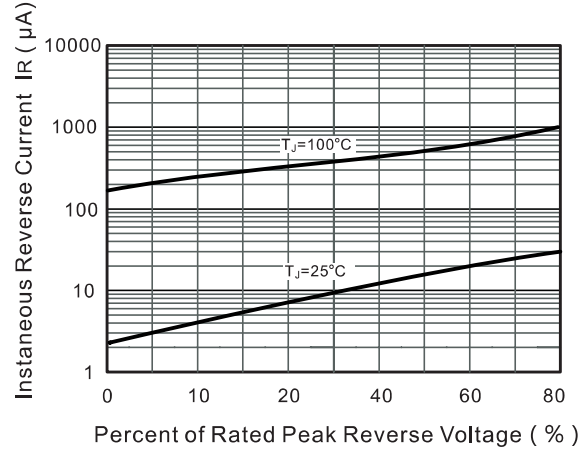


Fig.3 TYPICAL FORWARD VOLTAGE

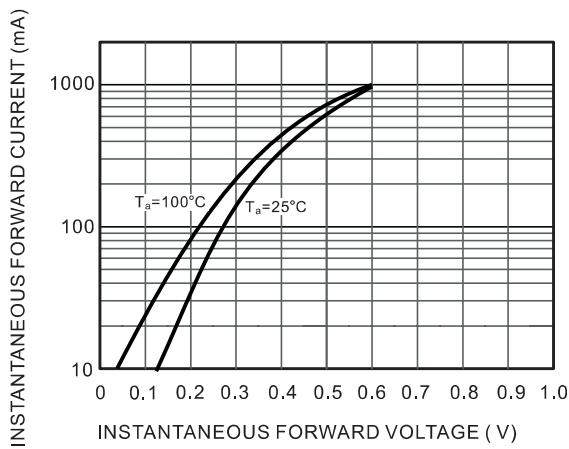
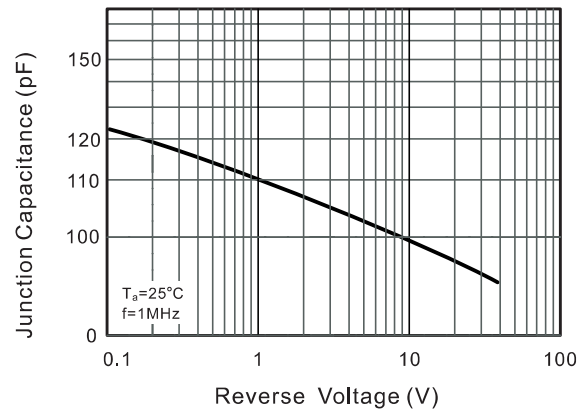


Fig.4 Typical Junction Capacitance



## Marking

Type number	Marking code
B16WS	SM