

## SB280

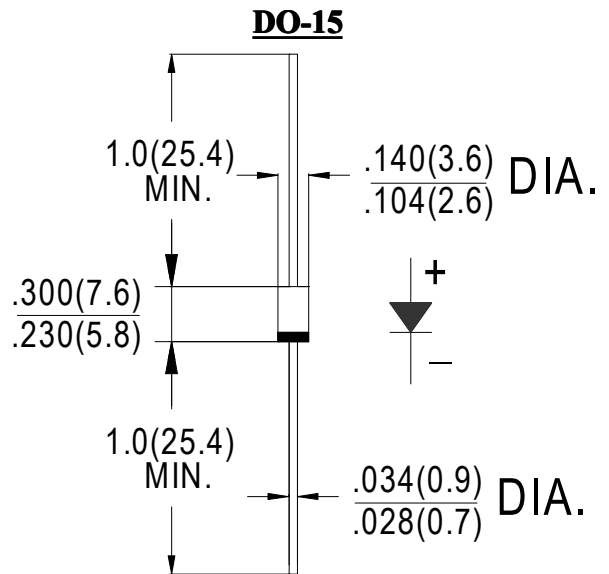
### 2.0AMPS. SCHOTTKY BARRIER RECTIFIERS

#### FEATURE

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed  
260°C /10sec/ 0.375" lead length at 5 lbs tension

#### MECHANICAL DATA

- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity: color band denotes cathode
- Mounting position: any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 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	SYM BOL	SB280	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	80	V
Maximum RMS Voltage	$V_{RMS}$	56	V
Maximum DC blocking Voltage	$V_{DC}$	80	V
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at $T_L = 90^\circ\text{C}$	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50.0	A
Maximum Forward Voltage at 2.0A DC	$V_F$	0.85	V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	$I_R$	0.1 10.0	mA
Typical Junction Capacitance (Note 1)	$C_J$	48	pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	65	$^\circ\text{C}/\text{W}$
Storage Temperature	$T_{STG}$	-55 to +150	$^\circ\text{C}$
Operation Junction Temperature	$T_J$	-55 to +150	$^\circ\text{C}$

#### Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

**RATING AND CHARACTERISTIC CURVES (SB280)**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

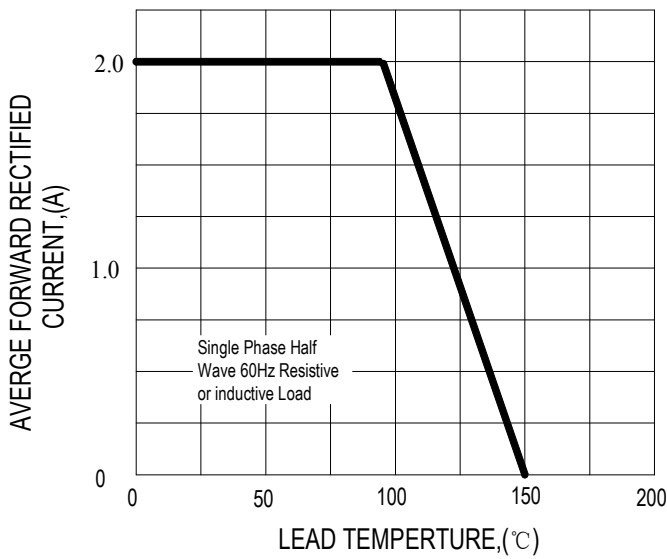


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

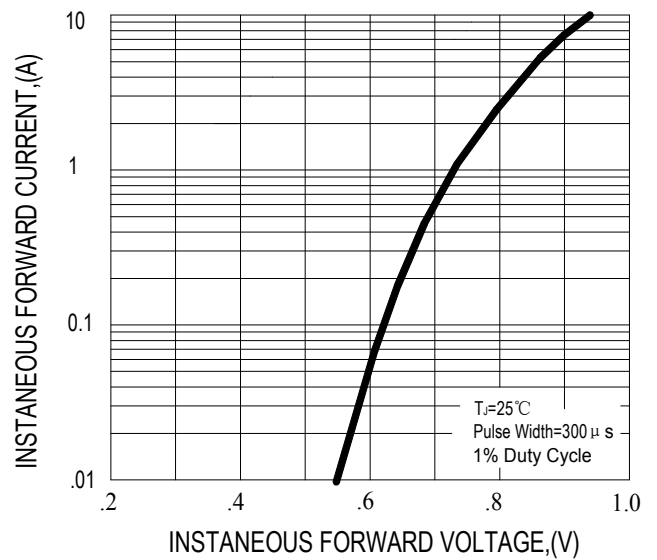


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

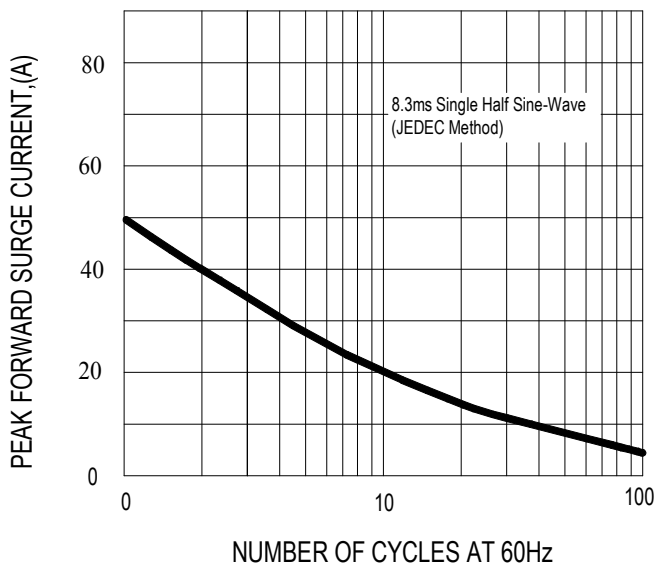
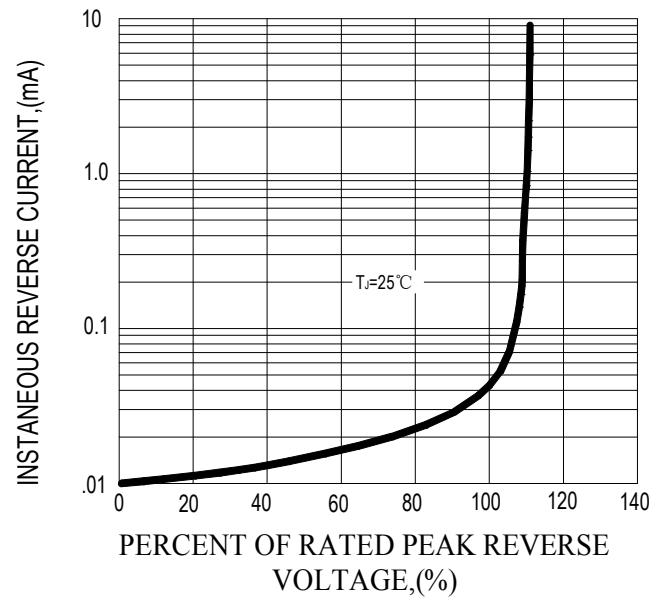


FIG.4-TYPICAL REVERSE CHARACTERISTICS





## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [pingwei manufacturer](#):*

Other Similar products are found below :

[KBJ1008](#) [SB5150L](#) [P6SMBJ68CA](#) [GBU410](#) [DB207S](#) [KBJ1006](#) [SB5P45](#) [KBJ1010](#) [GBL410](#) [GBU408](#) [PS40U60CT](#) [MBR20200CT](#) [D16-](#)  
[DSS16](#) [MUR1040CT](#) [MBR30100CT](#) [MBR20200FCT](#) [MBR20100CT](#) [MBR20150FCT](#) [FR107](#) [GBU806](#) [HBRA10100BCT](#) [SB2200](#)  
[MUR1620CTR](#) [SB5150](#) [GBU1006](#) [1N5404](#) [6A2](#) [PS10U100S](#) [GS1G](#) [GBJ2010](#) [GBU606](#) [16N65MF](#) [20N65NF](#) [HER303](#) [6A1](#) [1N5395](#)  
[SF16](#) [18N50MF](#) [MBR30100FCT](#) [MUR1640FCT](#) [MBR30200FCT](#) [SS510B](#) [GBU406](#) [GBP206](#) [KBJ406](#) [100N10NF](#) [MBR10200FCT](#)  
[GBU808](#) [SS3T10A](#) [PS40U100CT](#)