

## SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 20 - 60 V  
FORWARD CURRENT: 16 A

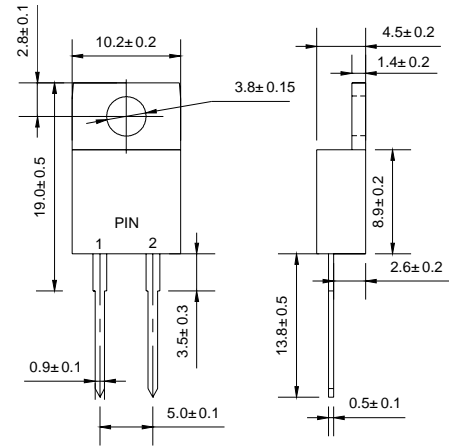
### FEATURES

- ◇ Metal-Semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- ◇ Low forward voltage drop,low switching losses
- ◇ High surge capability
- ◇ The plastic material carries U/L recognition 94V-0

### MECHANICAL DATA

- ◇ Case:JEDEC TO--220AC,molded plastic
- ◇ Terminals: Plated leads, solderable per MIL-STD-202, Method 208
- ◇ Polarity: As marked
- ◇ Weight: 0.064 ounce, 1.81 grams
- ◇ Mounting position: Any

### TO-220AC



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

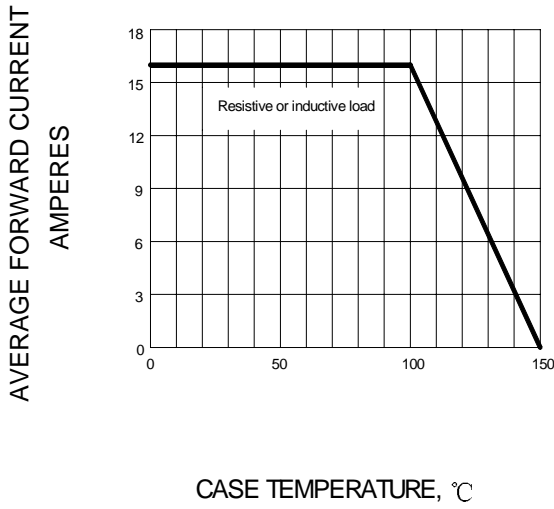
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		SR 1620	SR 1630	SR 1640	SR 1650	SR 1660	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	V
Working peak reverse voltage	$V_{RMS}$	14	21	28	35	42	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	V
Maximum average forward rectified current @ $T_A=100^\circ\text{C}$	$I_{F(AV)}$	16.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) @ $T_J=125^\circ\text{C}$	$I_{FSM}$	200.0					A
Maximum instantaneous forward voltage per leg @ 16A (Note1)	$V_F$	0.7			0.8		V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	$I_R$	1.0 50.0					mA
Operating junction temperature range	$T_J$	-55 --- +150					°C
Storage temperature range	$T_{STG}$	-55 --- +150					°C

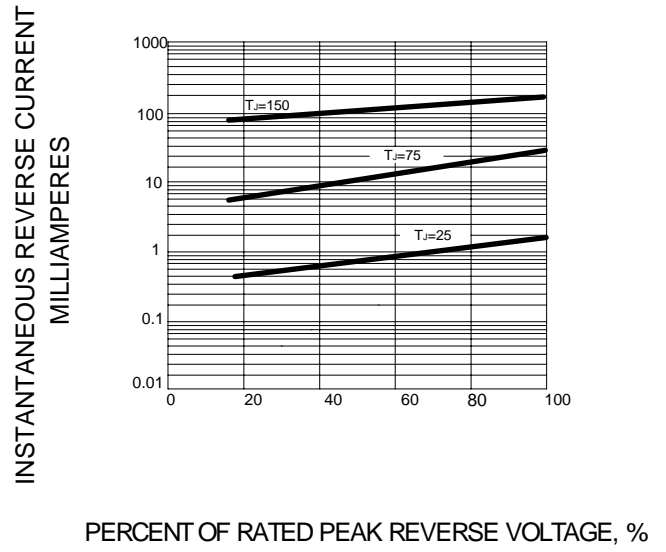
Note: 1. Pulse test:300us pulse width,1% duty cycle.

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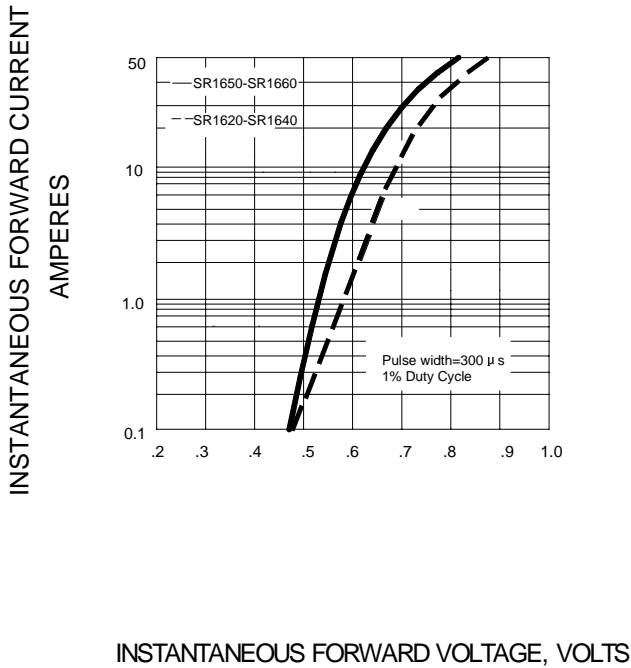
**FIG.1 – FORWARD CURRENT DERATING CURVE**



**FIG.2 – TYPICAL REVERSE CHARACTERISTICS**



**FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4 – PEAK FORWARD SURGE CURRENT**

