

## SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20--- 200 V    CURRENT: 3.0 A

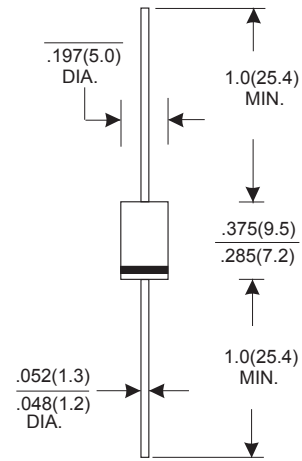
### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing
- Low power loss,high efficiency
- High current capability,Low forward voltage drop
- High surge capability
- For use in low voltage,high frequency inverters free wheeling, and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

### MECHANICAL DATA

- Case:DO-27 molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end
- Mounting Position:Any

### DO-27



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase,half wave,60 Hz,resistive or inductive load.

For capacitive load,derate by 20%.

TYPE NUMBER	SYMBOL	SR	SR	SR	SR	SR	SR	SR	SR	UNITS
		320	330	340	350	360	380	3100	3200	
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	200	V
Maximum RMS voltage	$V_{RMS}$	14	21	28	42	56	63	71	140	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	200	V
Maximum Average Forward rectified Current 0.375"(9.5mm) lead length	$I_{F(AV)}$	3.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80.0								A
Maximum instantaneous forward voltage at 3.0 A (Note 1)	$V_F$	0.55		0.70		0.85		0.90		V
Maximum reverse current at rated DC blocking voltage per diode	$I_R$	@ $T_A=25^\circ C$								mA
		20.0		10.0						
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40								°C/W
Typical junction capacitance (Note 3)	$C_j$	250.0				160				pF
Storage Temperature	$T_{STG}$	- 55 ---- + 150								°C
Operation Junction Temperature	$T_j$	- 55 ---- + 120								°C

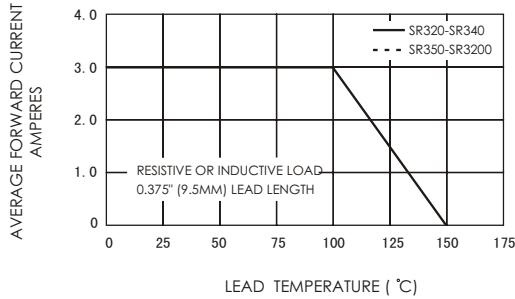
NOTE: 1. Pulse test:300µs pulse width,1% duty cycle.

2. Thermal resistance from junction to lead vertical P.C.B. Mounted,0.5"(12.7mm) lead length with 2.5"×2.5"(63.5×63.5mm)Copper pads

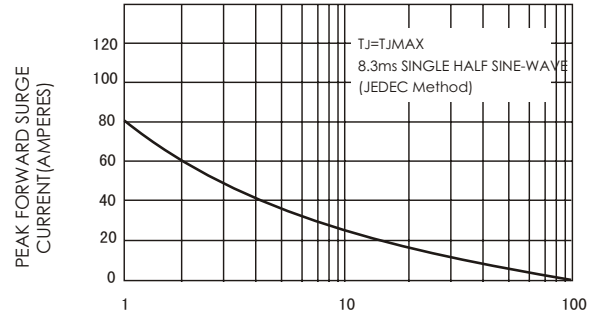
3. Measured at 1MHz and reverse voltage of 4.0 volts

# RATINGS AND CHARACTERISTIC CURVES

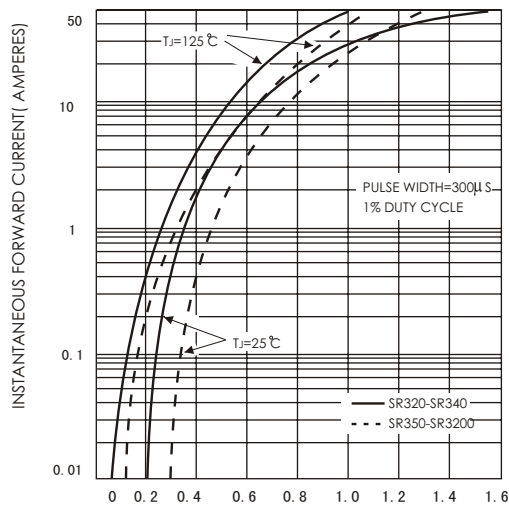
**FIG.1-FORWARD CURRENT DERATING CURVE**



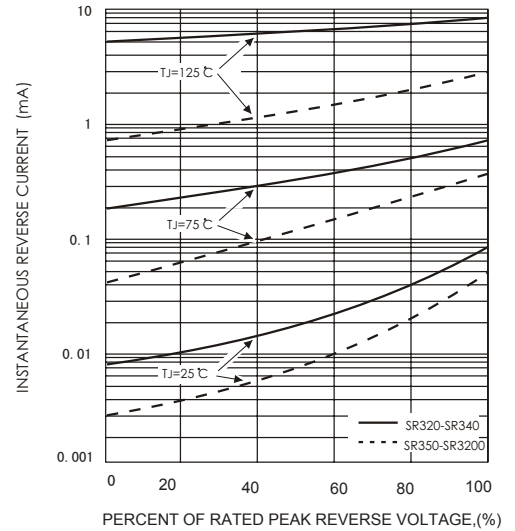
**FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



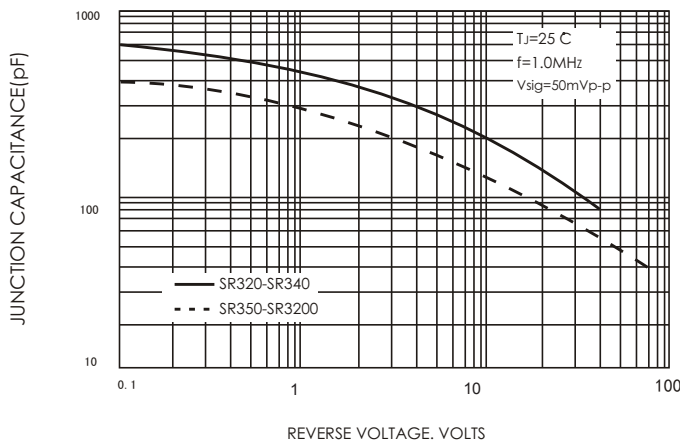
**FIG.3-TYPICAL INSTANTANEOUS FORWARD CURRENT**



**FIG.4-TYPICAL PEVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**



**FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE**

