

**2.0 A Schottky Barrier Rectifier**  
Rectifier Reverse Voltage 20 to 100V

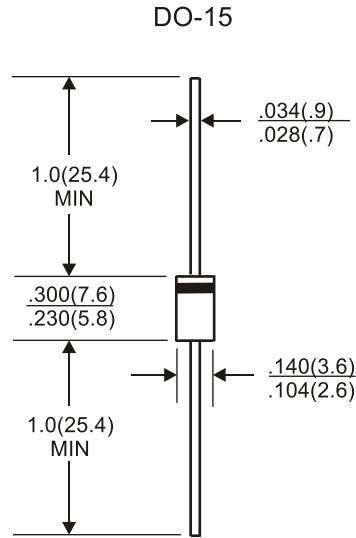


**Features**

- Extremely low VF
- Epitaxial construction
- Low power loss, high efficiency
- Low stored charge, majority carrier construction
- Plastic material has UL flammability classification 94V-0

**Mechanical Data**

Case: Molded plastic  
 Terminals: Solder plated solderable per MIL-STD-202, Method 208  
 Polarity: Cathode band  
 Mounting Position: Any  
 Weight: 0.4 grams (approx)



All dimensions inches and (millimeters)

**Maximum Ratings & Thermal Characteristics**

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.  
 For Capacitive load derate current by 20%.

Parameter	Symbol	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	unit
Maximum recurrent peak reverse voltage	VRRM	20	30	40	50	60	80	100	V
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	V
Maximum average forward rectified current 9.5 mm lead length (see fig.1)	IF(AV)	2.0							A
Peak forward surge current, single sine-wave superimposed on rated load (JEDEC Method)	IFSM	60							A
Typical thermal resistance	RthJA	45							°C/W
Typical junction capacitance	Cj	150							pF
storage temperature range	TSTG	-55 to + 150							°C
Operation temperature range	Tj	-55 to + 125							°C

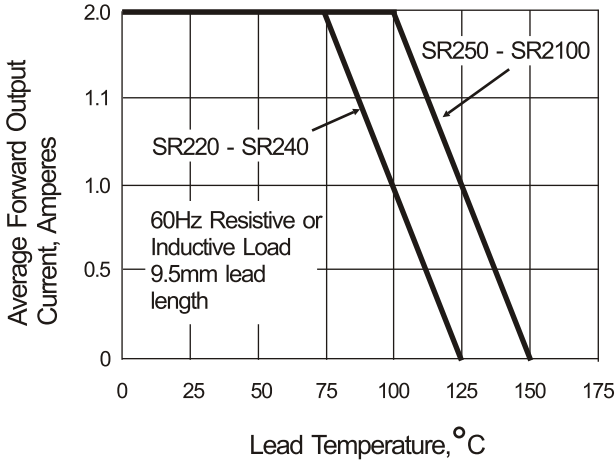
**Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
 For Capacitive load derate by 20 %.

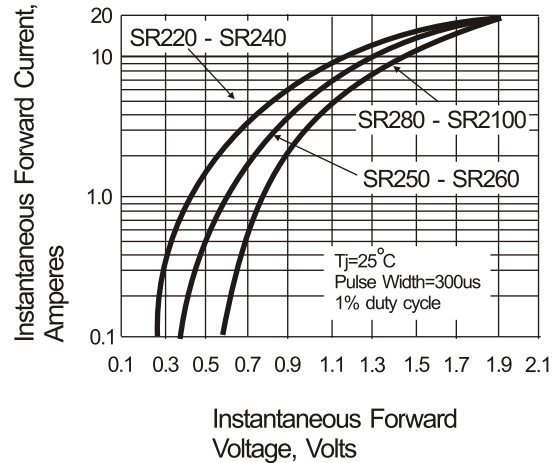
Parameter	Symbol	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	Unit	
Maximum instantaneous forward voltage drop at 2.0A	VF	0.55			0.70		0.85		V	
Maximum DC reverse current at rated DC blocking voltage per element	IR	1.0				10.0				mA

# Rating and Characteristic Curves ( $T_A=25^\circ\text{C}$ Unless otherwise noted ) SR220 thru SR2100

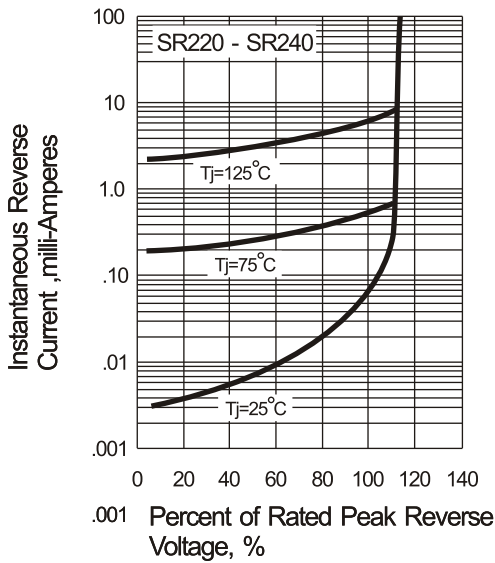
**Fig. 1 Forward Current Derating Curve**



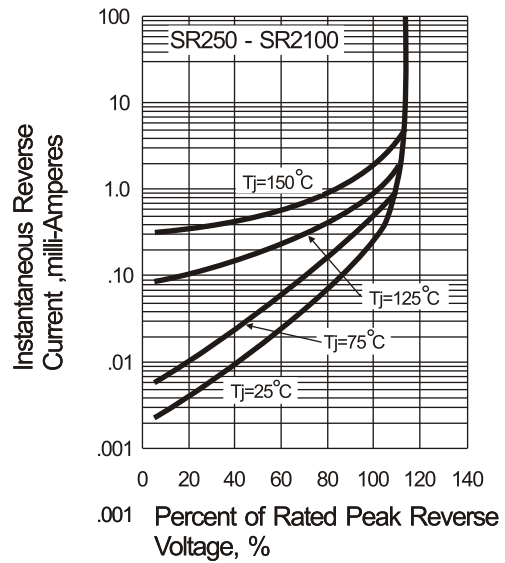
**Fig. 2 Typical Instantaneous Forward Characteristics**



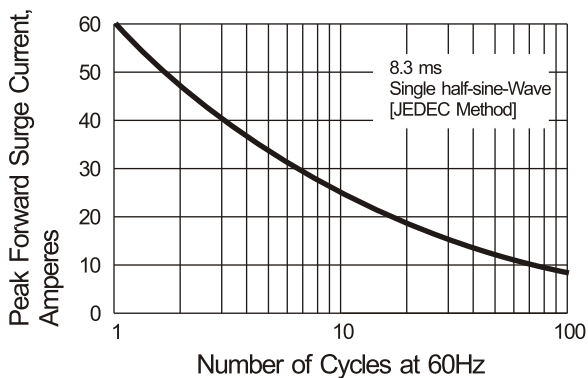
**Fig. 3 Typical Reverse Characteristics**



**Fig. 3 Typical Reverse Characteristics**



**Fig. 4 Maximum Non-repetitive Forward Surge Current**



**Fig. 5 Typical Junction Capacitance**

