

**Schottky Barrier Rectifiers**  
**Reverse Voltage 20 to 100 Volts Forward Current 2.0 Amperes**

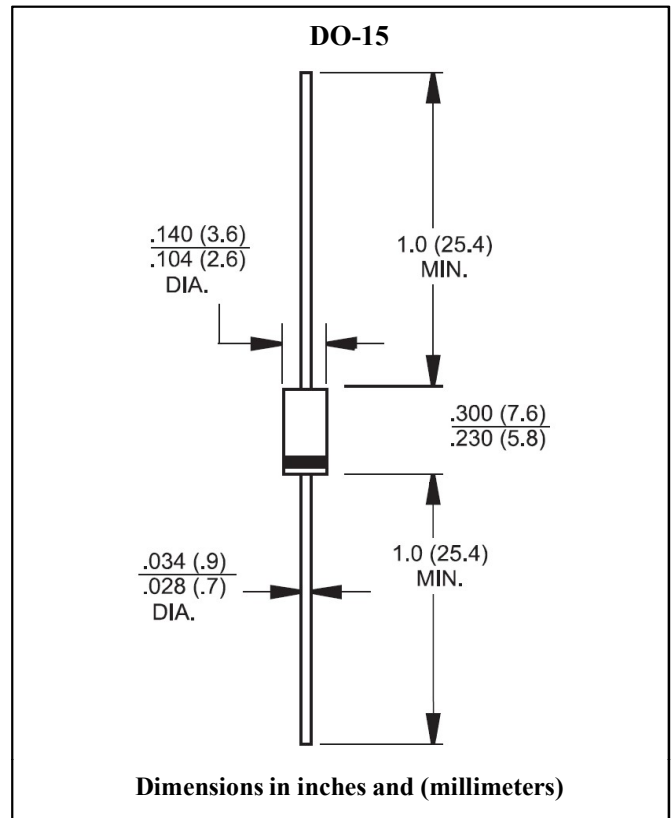
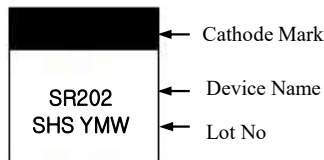
**Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**Mechanical Data**

- Case : DO-15 Molded plastic
- Epoxy : UL 94V-O rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed : 260°C/10 seconds /0.375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension
- Weight : 0.4 gram

**Marking**



**Maximum Ratings & 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 current by 20%

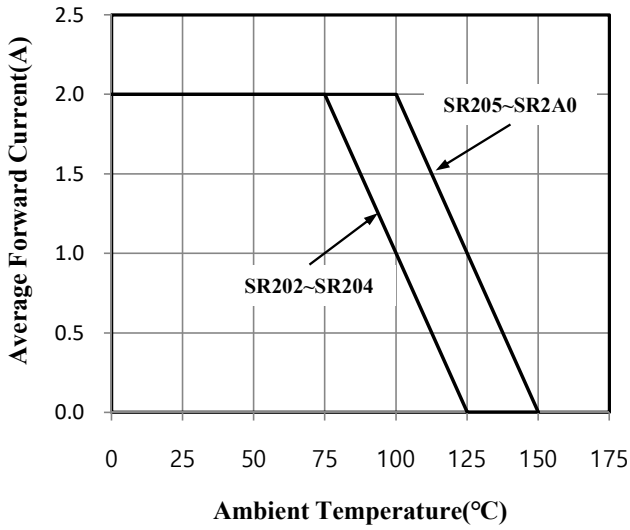
Parameter	Symbol	SR 202	SR 203	SR 204	SR 205	SR 206	SR 209	SR 2A0	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	V	
Maximum Average Forward Rectified Current See Fig. 1	$I_F(AV)$	2.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50							A	
Maximum Instantaneous Forward Voltage @ 2.0A	$V_F$	0.55		0.70		0.85		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5					1.0		mA	Ta=25°C
		20					20		mA	Ta=100°C
Typical Thermal Resistance	Rth(j-a)	45					35		°C /W	Note 1
Typical Junction Capacitance	$C_J$	200			160			pF	Note 2	
Operation Junction Temperature Range	$T_J$	-55 to +125			-55 to +150			°C		
Storage Temperature Range	$T_{STG}$	-55 to +150							°C	

Note 1. Mount on Cu-Pad Size 10mm×10mm on P.C.B

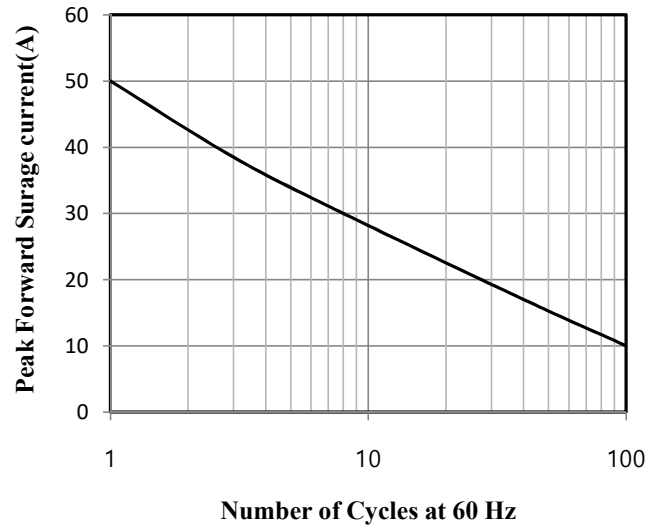
Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

**Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)**

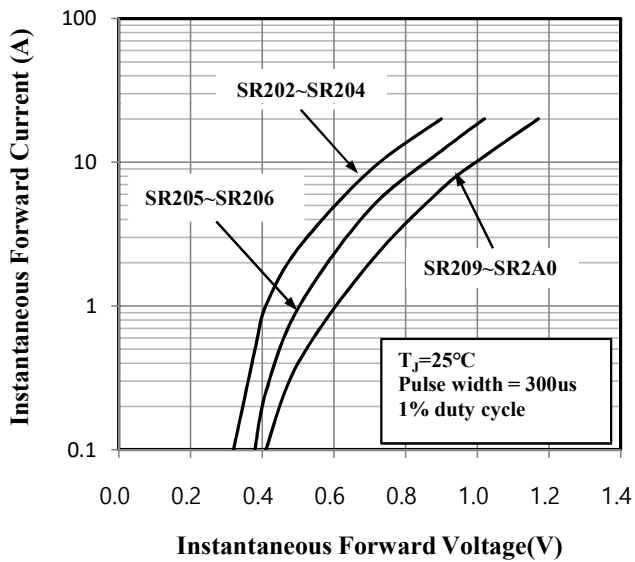
**Fig.1 Forward Current Derating Curve**



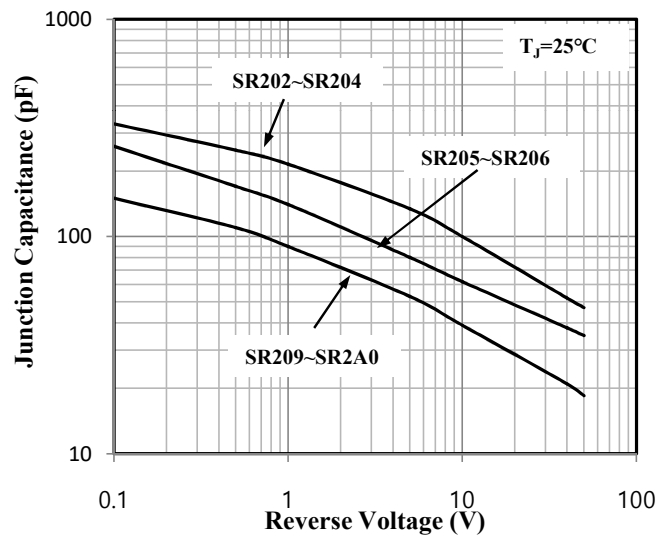
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Typical Reverse Characteristics**

