

# SR802 - SR806

**PRV : 20 - 60 Volts**  
**I<sub>o</sub> : 8.0 Amperes**

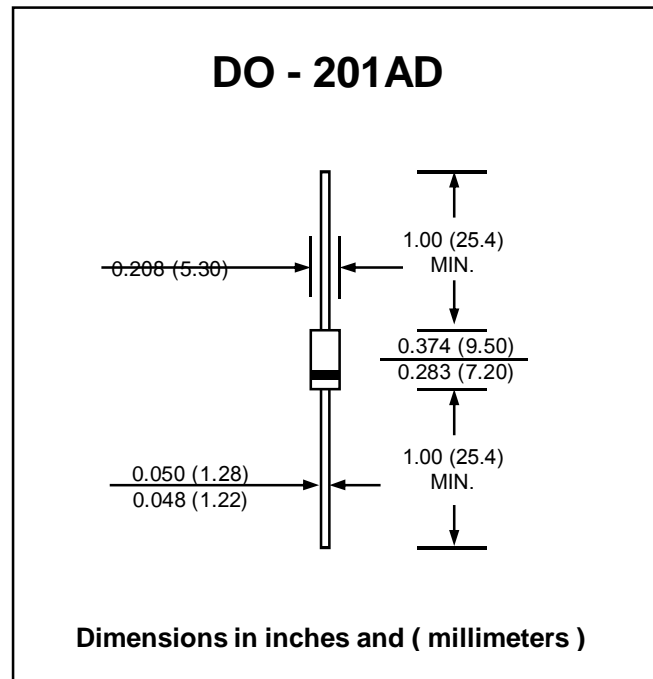
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low forward voltage drop
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.1 grams

# SCHOTTKY BARRIER RECTIFIER DIODES



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

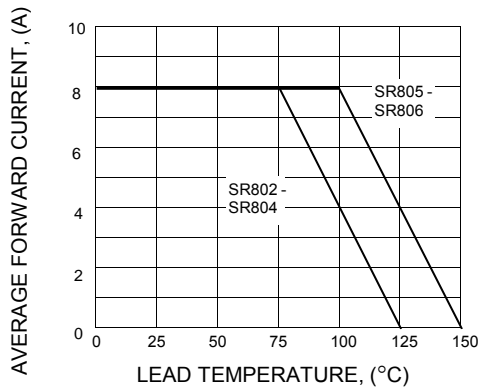
RATING	SYMBOL	SR802	SR803	SR804	SR805	SR806	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Current ,See Fig.1	I <sub>F(AV)</sub>	8.0					A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	175					A
Maximum Forward Voltage at I <sub>F</sub> = 8 A	V <sub>F</sub>	0.55		0.70		V	
Maximum Reverse Current at Ta = 25 °C	I <sub>R</sub>	0.5					mA
Rated DC Blocking Voltage Ta = 100 °C	I <sub>R(H)</sub>	50					mA
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	40					°C/W
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	500			270		pF
Operating Junction Temperature Range	T <sub>J</sub>	- 65 to + 125			- 65 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150					°C

**Notes :**

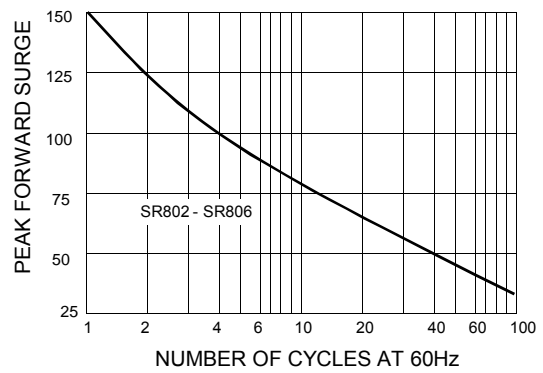
- (1) Mount on Cu-Pad Size 16mm x 16mm on P.C.B.
- (2) Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

**RATING AND CHARACTERISTIC CURVES ( SR802 - SR806 )**

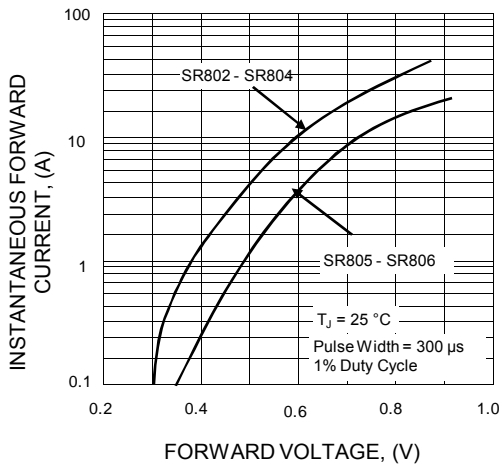
**FIG.1 - FORWARD CURRENT DERATING CURVE**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

