

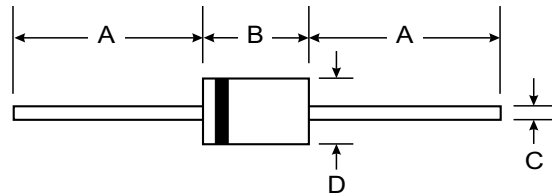
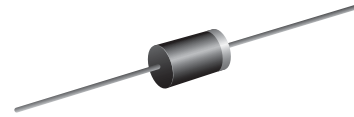
VOLTAGE RANGE: 20 - 60V
CURRENT: 8.0 A

Features

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

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	SR802	SR803	SR804	SR805	SR806	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Current ,See Fig.1	$I_{F(AV)}$	8.0					A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	175					A
Maximum Forward Voltage at $I_F = 8\text{ A}$	V_F	0.55			0.70		V
Maximum Reverse Current at $T_a = 25^\circ\text{C}$	I_R	0.5					mA
Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	$I_{R(H)}$	50					mA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40					$^\circ\text{C/W}$
Typical Junction Capacitance (Note 2)	C_J	500			270		pF
Operating Junction Temperature Range	T_J	- 65 to + 125			- 65 to + 150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 150					$^\circ\text{C}$

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

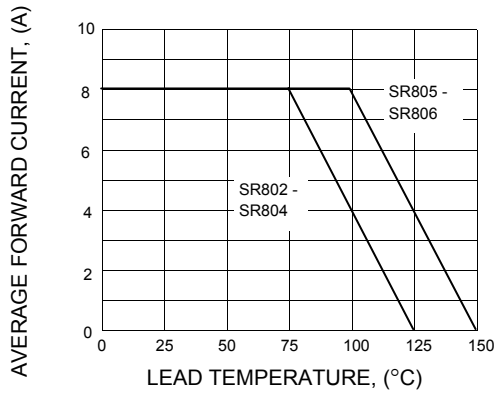


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

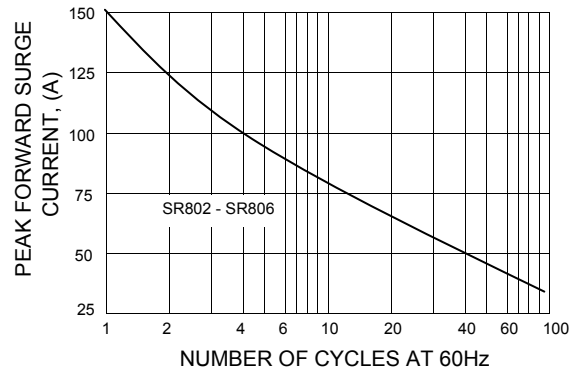


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

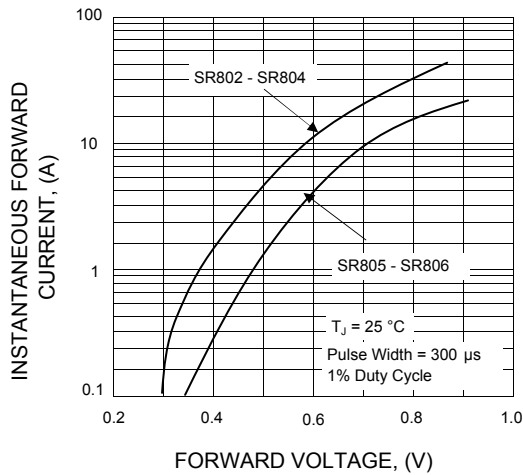


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

