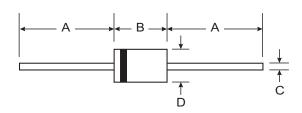


SR302 - SR306

HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

Features

- High current Capability and Low Forward Drop
- High Surge Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency
- Plastic Package: UL Flammability Classification Rating 94V-0



Mechanical Data

 Case: DO-201AD, Molded Plastic
Terminals: Axial lead, Solderable per MIL-STD-202, Method 208

Mounting Position: AnyPolarity: Cathode bandWeight: 1.2 grams (approx.)

DO-201AD Dim Min Max 25.40 Α В 7.20 9.50 С 1.20 1.30 D 4.80 5.30 All Dimensions in mm

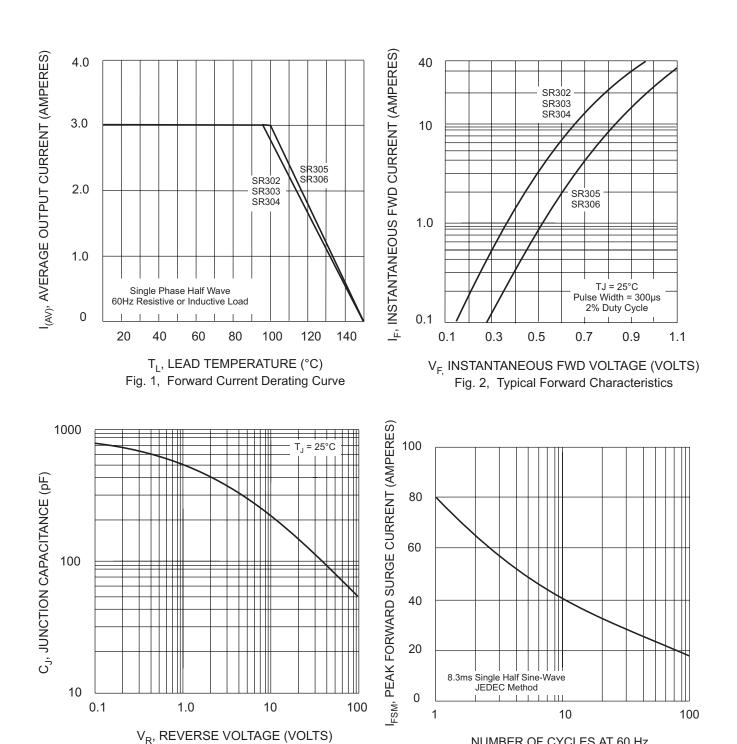
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

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

Characteristic		Symbol	SR302	SR303	SR304	SR305	SR306	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage		V _{RSM}	14	21	28	35	42	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current @ Lead temperature (T _L) measured 9.5mm lead length from body	T _L = 95°C T _L = 100°C	I _(AV)	3.0			3.0		А
Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	80					А
Maximum Forward Voltage at 1.0A		V _F	0.55			0.72		V
Maximum Average Reverse Current at Peak Reverse Voltage	T _A = 25°C T _A = 100°C	I _R	1.0 20				mA	
Typical Thermal Resistance (Note 1)		$R_{\theta JL}$	20					K/W
Typical Junction Capacitance (Note 2)		Сл	300					pF
Storage and Operating Temperature Range		T _J , T _{STG}	-65 to +150					°C

Notes: 1. Thermal Resistance from Junction to Ambient Vertical PC Board Mounting, 1.27mm Lead Length.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V.



NUMBER OF CYCLES AT 60 Hz Fig. 4, Max Non-Repetitive Peak Fwd Surge Current

Fig. 3, Typical Junction Capacitance