

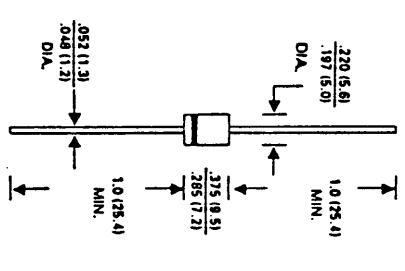
706-632 / 644 / 656

SR302 THRU SR306
3.0 AMPS. SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
 20 to 60 Volts
CURRENT
 3.0 Amperes

DO-201AD

- FEATURES**
- Low forward voltage drop
 - High current capability
 - High reliability
 - High surge current capability
- MECHANICAL DATA**
- Case: DO-201 AD Molded plastic
 - Epoxy: UL 94V-0 rate/ flame retardant
 - Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
 - Polarity: Color band denotes cathode end
 - High temperature soldering guaranteed: 250°C/10 seconds/375° (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
 - Weight: 1.10 grams



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%.

TYPE NUMBER	SR302	SR303	SR304	SR305	SR306	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	3.0					A
Peak Forward Surge Current, 8.3 ms single half sine wave superimposed on rated load (JEDEC method)	80					A
Maximum Instantaneous Forward Voltage @ 3.0A	0.550					V
Maximum D.C. Reverse Current @ T _a =25°C at Rated D.C. Blocking Voltage	1.0					mA
Typical Thermal Resistance R _{JA} (Note 1)	20					°C/W
Typical Junction Capacitance (Note 2)	300					pf
Operating and Storage Temperature Range T _a , T _{stg}	-65 to +125 / -65 to +150					°C

NOTES: 1. Thermal Resistance Junction to Ambient Vertical PC Board Mounting, .375" (9.5mm) Lead Length.
 2. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

multicomp

RATINGS AND CHARACTERISTIC CURVES (SR302 THRU SR306)

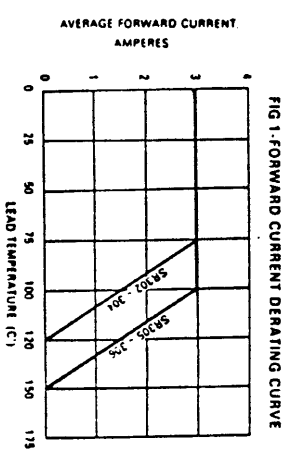


FIG 1 - FORWARD CURRENT DERATING CURVE

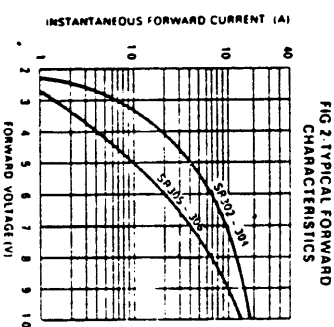


FIG 2 - TYPICAL FORWARD CHARACTERISTICS

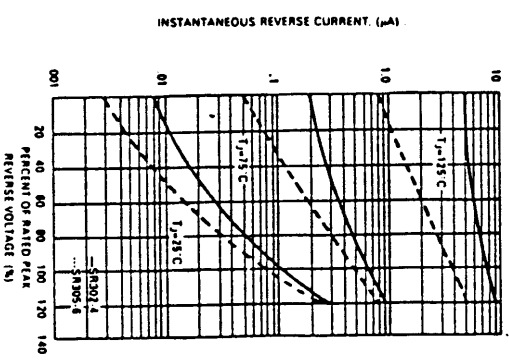


FIG 3 - TYPICAL REVERSE CHARACTERISTICS

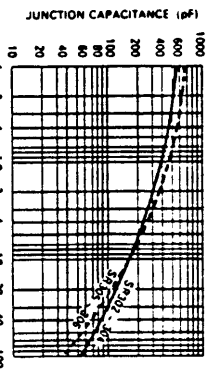


FIG 4 - TYPICAL JUNCTION CAPACITANCE

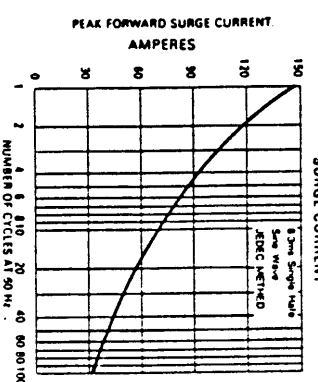


FIG 5 - MAXIMUM NON-REPEITIVE FORWARD SURGE CURRENT

6444
6560