Schottky Barrier Rectifiers

COMCHIP
SMD DIODE SPECIALIST

SR8A20F-G Thru SR8A100F-G

Reverse Voltage: 20 ~ 100 Volts
Current: 8.0 Amp

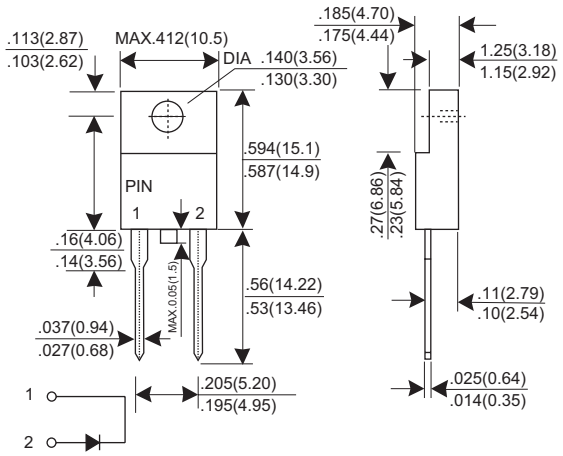
Features:

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

Mechanical Data:

- Case: ITO-220AC molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Approx. Weight: 1.16 grams

ITO-220AC



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbol	SR8A20F-G	SR8A40F-G	SR8A60F-G	SR8A80F-G	SR8A100F-G	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	V
Max. RMS Voltage	V_{RMS}	14	28	42	56	70	V
Max. DC Blocking Voltage	V_{DC}	20	40	60	80	100	V
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	100					A
Max. Average Forward Rectified Current T_C=100°C	$I_{(AV)}$	8.0					A
Max. Instantaneous Forward Voltage at 8.0A	V_F	0.55		0.65	0.75	0.85	V
Max. DC Reverse Current @Tj = 25°C	I_R	1.0					mA
At Rated DC Blocking Voltage @Tj = 100°C		50					
Typocal junction Capacitance (Note1)	C_J	450					pF
Max. Operating Junction Temperature	T_j	-55 to +125					°C
Storage Temperature	T_{STG}	-55 to +150					°C

Note1: (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

"-G" suffix designates RoHS compliant version

RATINGS AND CHARACTERISTIC CURVES SR8A20F-G THRU SR8A100F-G

FIG.1 - FORWARD CURRENT DERATING CURVE

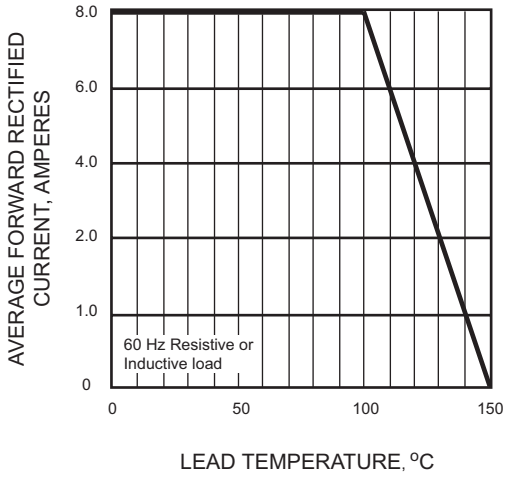


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

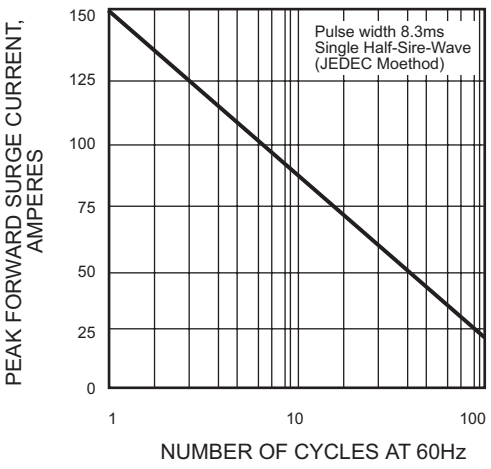


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

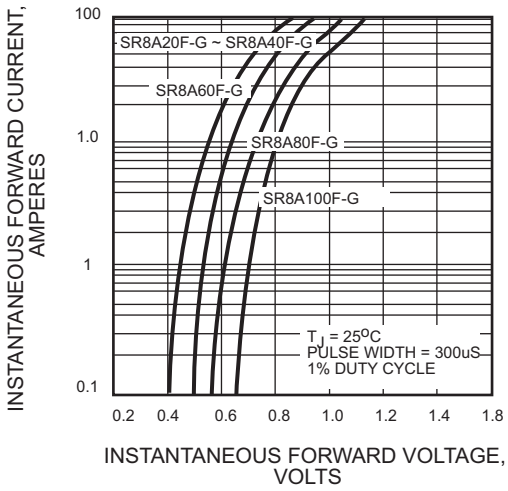


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

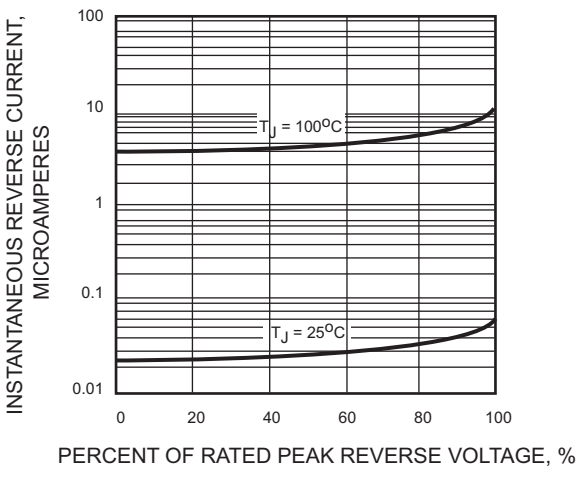


FIG.5 - TYPICAL JUNCTION CAPACITANCE

