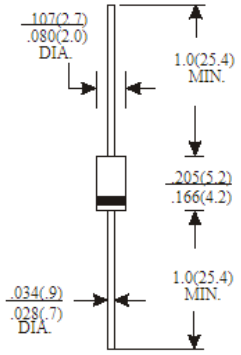
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

DO-41



Dimensions in inches and (millimeters)

FEATURES

. Low forward voltage drop

. High current capability

. High reliability

. High surge current capability

. Epitaxial construction

MECHANICAL DATA

. Case: Molded plastic

. Epoxy: UL 94V-0 rate flame retardant

. Lead:Axial Lead, solderable per MIL-STD-202,
method 208 guaranteed

. Polarity: Color band denotes cathode end

. Mounting position:Any

. Weight: 0.34 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SR220S	SR230S	SR240S	SR250S	SR260S	SR280S	SR2100S	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Working Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current, See Fig. 1	2.0							A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage at 2.0A	0.50			0.65		0.83		V
Maximum DC Reverse Current Ta=25 At Rated DC Blocking Voltage Ta=100	0.2 20							mA
Typical Junction Capacitance (Note1)	170							pF
Typical Thermal Resistance R JA (Note 2)	35							/ W
Operating Temperature Range TJ	-50 ~ +150							
Storage Temperature Range TSTG	-65 ~ +170							

NOTES:
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

Any changing of specification will not be informed ind

RATING AND CHARACTERISTIC CURVES (SR220 S THRU SR2100S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

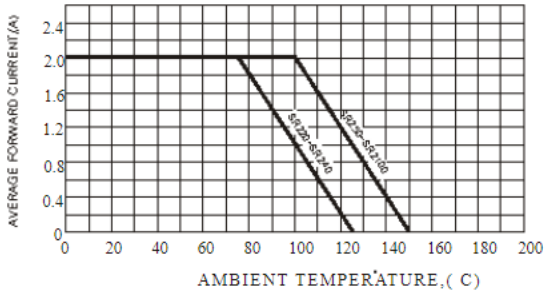


FIG.2-TYPICAL FORWARD CHARACTERISTICS

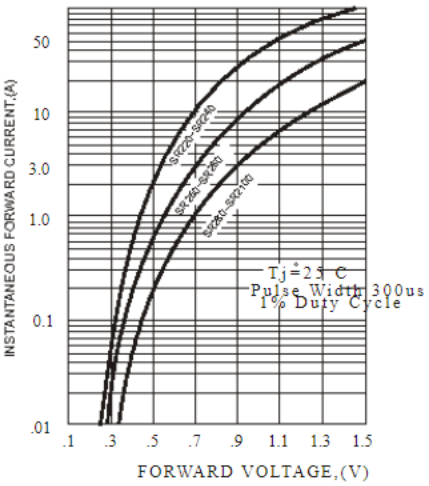


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

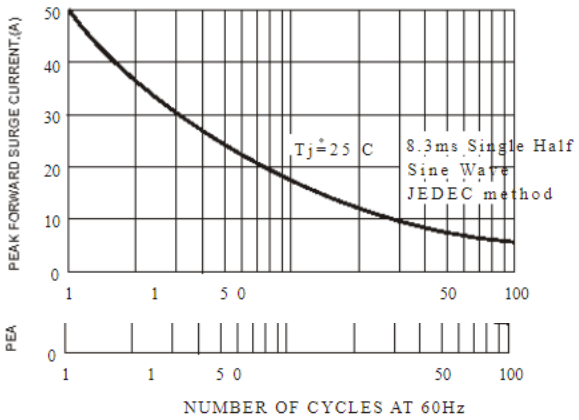


FIG.4-TYPICAL JUNCTION CAPACITANCE

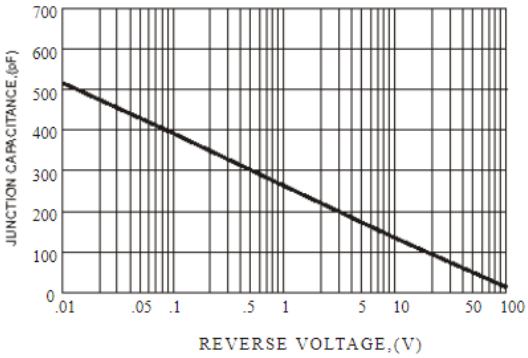


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

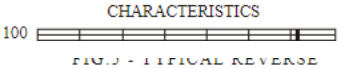


FIG.5 - TYPICAL REVERSE CHARACTERISTICS