

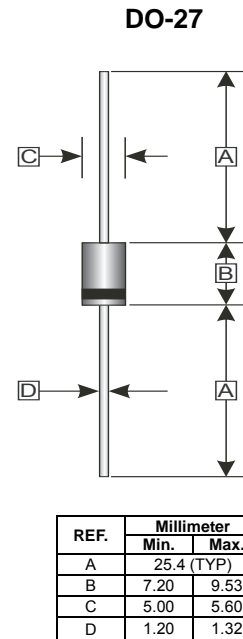
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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 leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.10 grams (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETERS	SYMBOL	PART NUMBERS						UNITS
		SR 320	SR 330	SR 340	SR 360	SR 380	SR 3100	
Recurrent Peak Reverse Voltage (Max.)	V_{RRM}	20	30	40	60	80	100	V
Working Peak Reverse Voltage	V_{RWM}	20	30	40	60	80	100	V
DC Blocking Voltage (Max.)	V_{DC}	20	30	40	60	80	100	V
Average Forward Rectified Current (Max.) ¹	I_{AV}	3.0						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80						A
Instantaneous Forward Voltage at 3.0A	V_F	0.52		0.65	0.83		V	
DC Reverse Current	$T_A=25^\circ\text{C}$	0.3						mA
	$T_A=100^\circ\text{C}$	30						
Junction Capacitance (Typ.) ¹	C_J	250						pF
Thermal Resistance (Typ.) ²	$R\theta_{JA}$	25						°C/W
Operating & Storage Temperature	T_J, T_{STG}	-50~150, -65~175						°C

Note:1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C
2. Thermal Resistance Junction to Ambient

RATINGS AND CHARACTERISTIC CURVES (SR320 THRU SR3100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

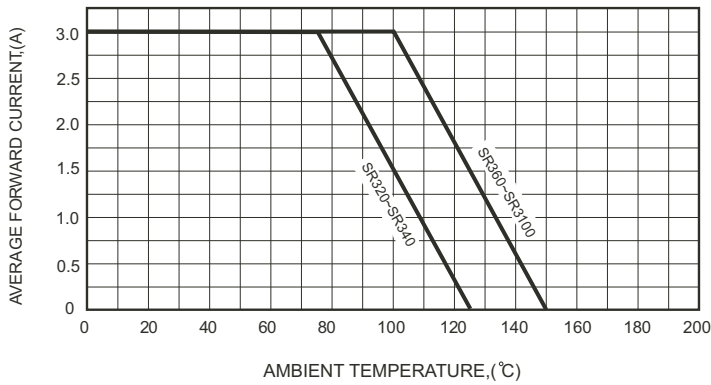


FIG.2-TYPICAL FORWARD CHARACTERISTICS

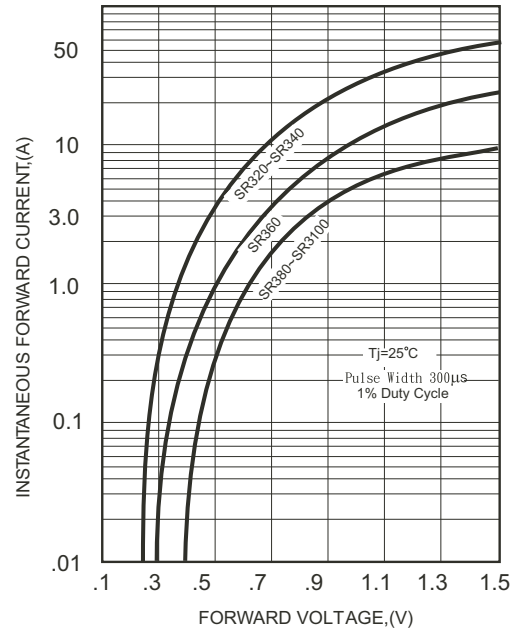


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

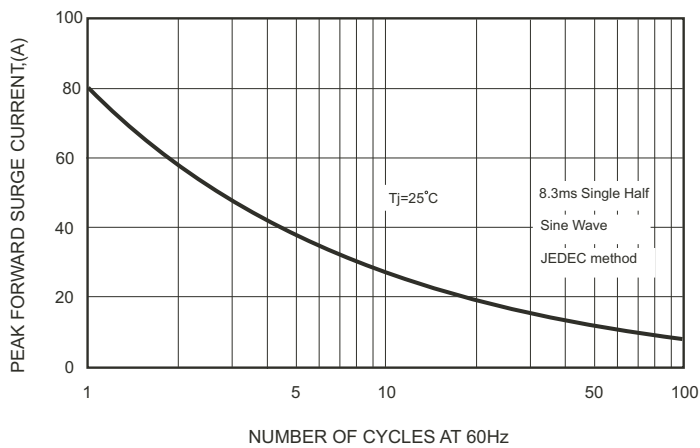


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

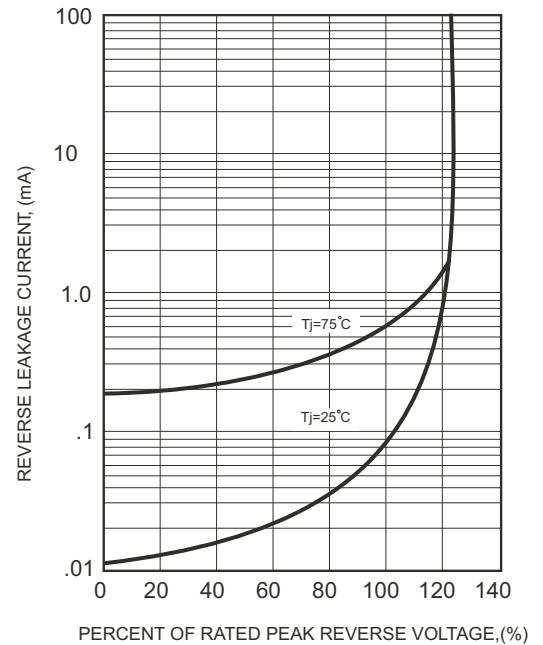


FIG.4-TYPICAL JUNCTION CAPACITANCE

