

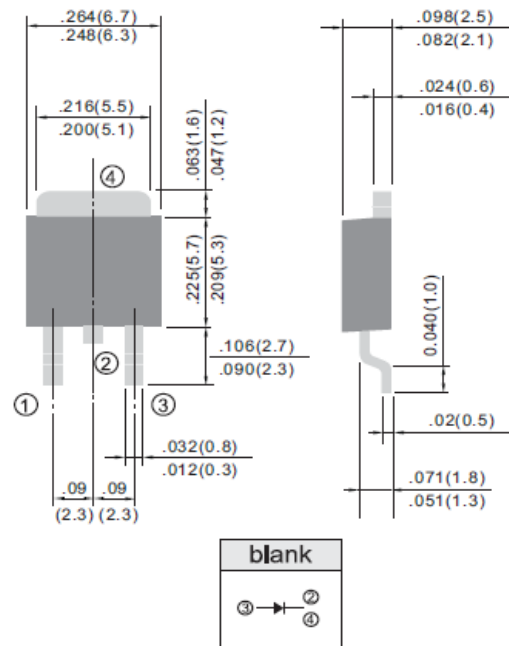
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Weight: 0.015 ounces, 0.4grams.

TO-252/DPAK



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	SD320S	SD330S	SD340S	SD350S	SD360S	SD380S	SD3100S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at @ $T_c=75^\circ C$	$I_{(AV)}$	3.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	75.0							Amp
Maximum instantaneous forward voltage at 1 A	V_F	0.5		0.64		0.85		Volts	
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	0.2							mA
		20							
Typical Thermal Resistance	$R_{\theta JC}$	5.0							°C/W
Operating Temperature Range	T_J	-65 to +125							°C
Storage Temperature Range	T_{STG}	-65 to +150							°C

RATINGS AND CHARACTERISTIC CURVES (SD320S THRU SD3100S)

Fig.1- FORWARD CURRENT DERATING

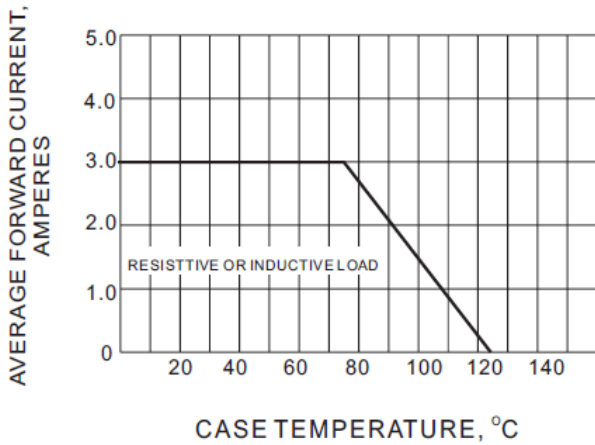


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

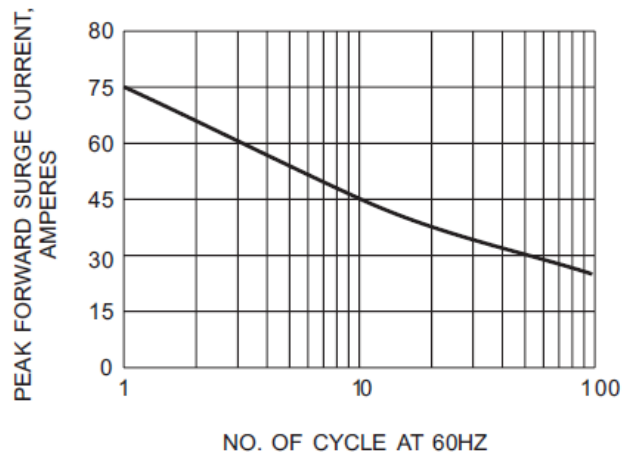


Fig.3- TYPICAL REVERSE CHARACTERISTICS CURVE

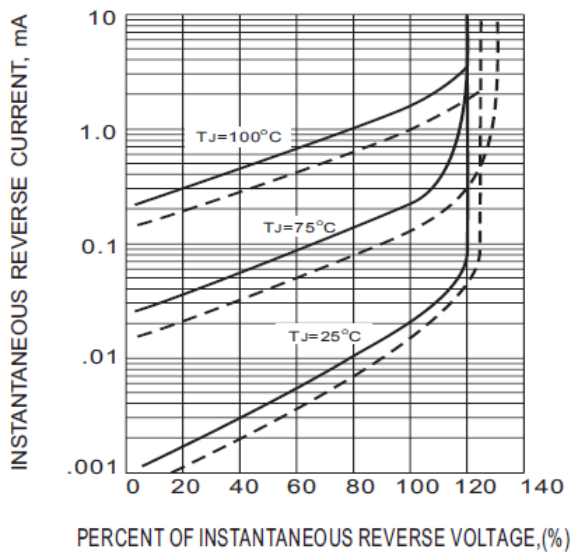


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

