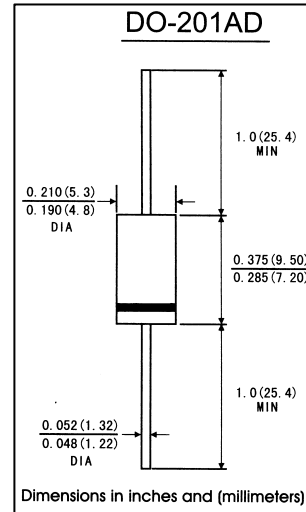


**FEATURES**

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Metal sliicon junction ,majority carriet conduction
- . Guard ring for overcoltage protection
- . Low power loss,high efficiency
- . High current capability ,Low forward voltage drop
- . High surge capability
- . For use in low voltage ,high frequency inverters, free wheeling , and polarilty protection applications
- . High temperature soldering guaranteed: 250℃/10 seconds at terminals, 0.375"(9.5mm)lead length, 5lbs.(2.3kg)tension



**MECHANICAL DATA**

- . **Case:** JEDEC DO-201AD molded plastic body
- . **Terminals:** plated axial leads,solderable per MIL-STD-750,method 2026
- . **Polarity:** coler band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.041 ounce, 1.15 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Ratings at 25℃ ambient temperature unless otherwise specified,Single phase,half wave,resistive or inductive) load. For capacitive load,derate by 20%)

	Symbols	SR320	SR330	SR340	SR350	SR360	SR380	SR3A0	Units
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	57	71	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length (see Fig.1)	I(AV)	3.0							Amp
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	IFSM	80.0							Amps
Maximum instantaneous forward voltage at 3.0 A(Note 1)	VF	0.55		0.70		0.85			Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25℃	1.5							mA
	TA=100℃	20		10					
Typeical junction capacitance(Note 3)	CJ	250			160				pF
Typeical thermal resistance(Note 2)	R θ <sub>IA</sub>	40.0							℃/W
	R θ <sub>JL</sub>	10.0							
Operating junction temperature range	TJ	-65 to +125			-65 to +150				℃
storage temperature range	TSTG	-65 to +150							℃

**Notes:** 1. Pulse test: 300 μs pulse width,1% duty cycle

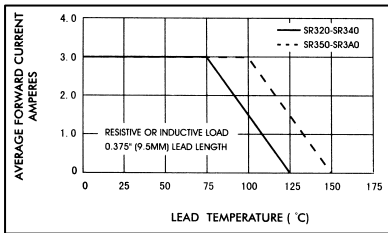
2.Thermal resistance from junction to lead vertical P.C.B. Mounted, 0.5"(12.7mm)lead length

with 2.5X2.5"(63.5X63.5mm)copper pads

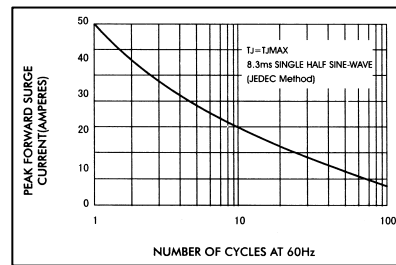
3.Measure a 1MHz and reverse voltage of 4.0volts

**RATINGS AND CHARACTERISTIC CURVES SR320 THRU SR3A0**

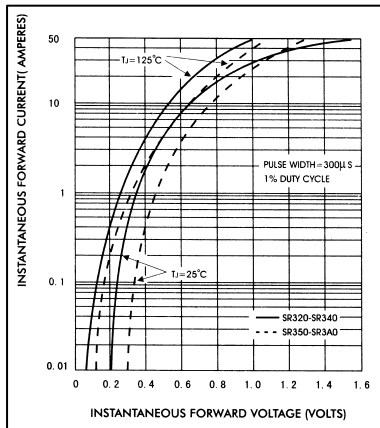
**FIG.1-FORWARD CURRENT DERATING CURVE**



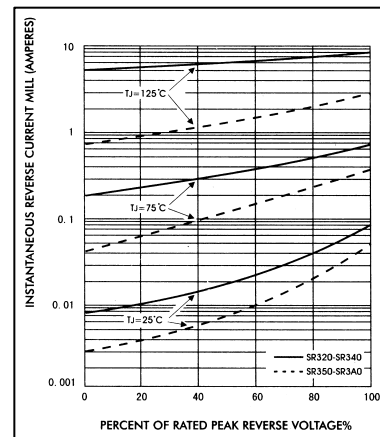
**FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



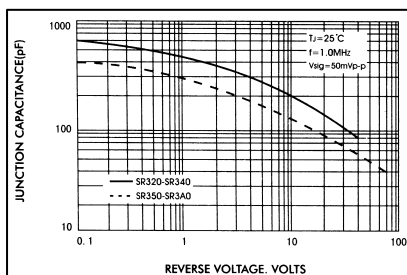
**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**



**FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE**

