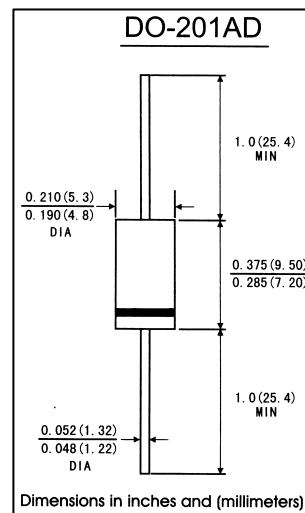


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage 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 polarity 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:** color 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)	l(AV)	3.0							Amp	
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	lFSM	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℃	IR	1.5							mA
	TA=100℃		20		10					
Typeical junction capacitance(Note 3)		CJ	250		160				pF	
Typeical thermal resistance(Note 2)	R θIA	40.0							℃/W	
	R θJL	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

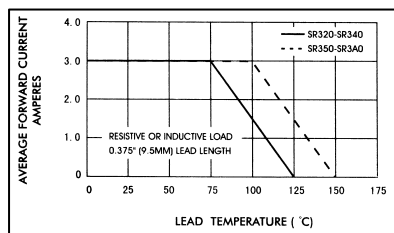


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

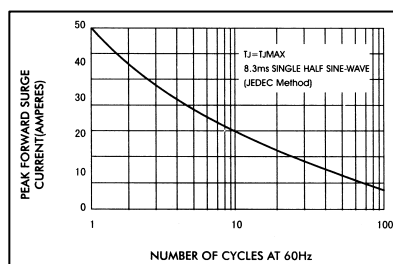


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

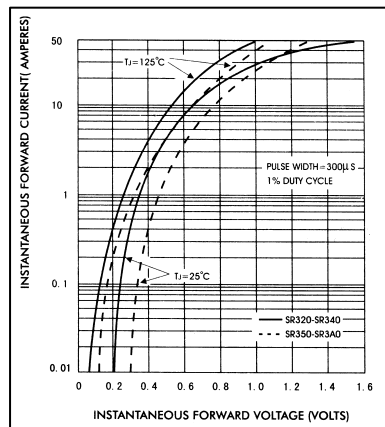


FIG.4-TYPICAL REVERSE CHARACTERISTICS

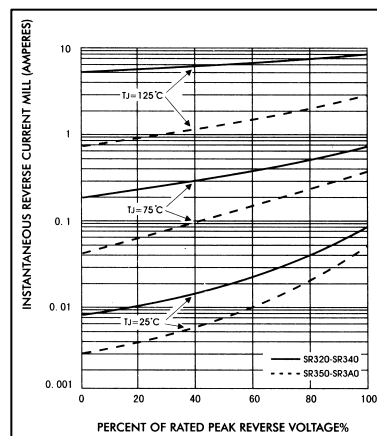


FIG.5-TYPICAL JUNCTION CAPACITANCE

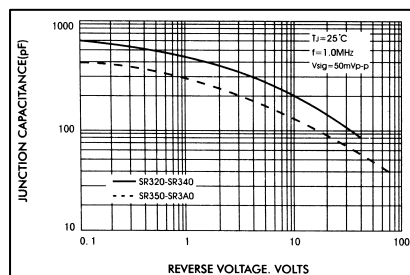


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

