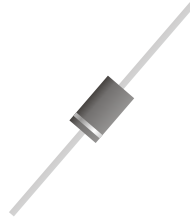
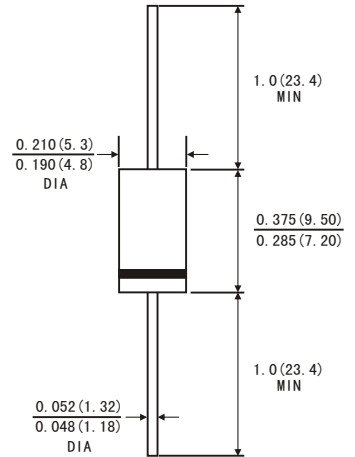


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



DO-201AD



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: 0.041ounce, 1.12 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	SR 1020L	SR 1030L	SR 1045L	SR 1050L	SR 1060L	SR 1080L	SR 10100L	SR 10150L	SR 10200L	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	45	50	60	80	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	14	21	32	35	42	56	70	105	140	Volts
Maximum DC blocking voltage	V _{DC}	20	30	45	50	60	80	100	150	200	Volts
Maximum average forward rectified current (see Fig.1)	I(AV)	10.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0									Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)	V _F	0.45		0.55			0.75		0.80	0.85	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _a = 25°C	0.2									mA
	T _a = 125°C	15			50						
Typical thermal resistance (Note 2)	R _{θJC}	2.5									°C/W
Operating junction temperature range	T _J	-65 to +150									°C
Storage temperature range	T _{STG}	-65 to +150									°C

- Notes: 1.Pulse test: 300 μ s pulse width,1% duty cycle
2.Thermal resistance from junction to case

FIG.1-FORWARD CURRENT DERATING CURVE

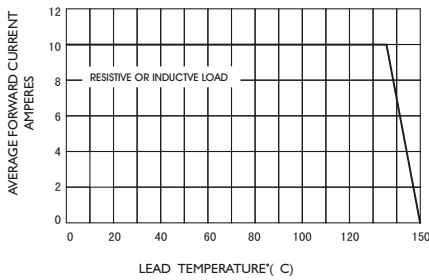


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

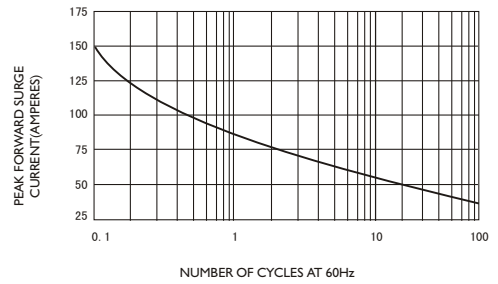


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

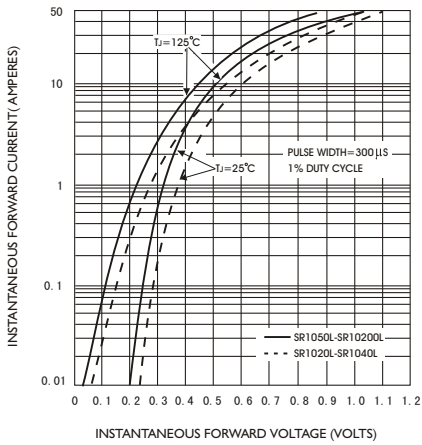


FIG.4-TYPICAL REVERSE CHARACTERISTICS

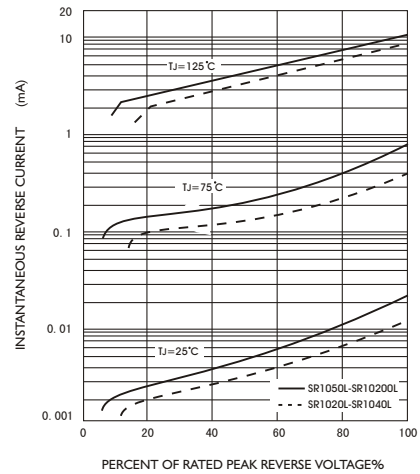


FIG.5-TYPICAL JUNCTION CAPACITANCE

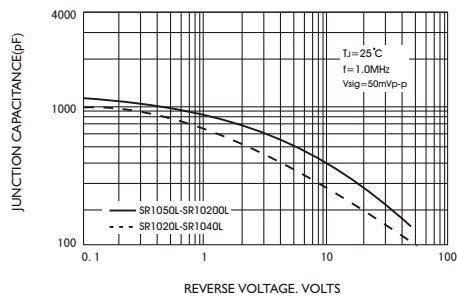


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

