SAMYANG ELECTRONICS

(SINGLE CHIP)

SR1535 --- SR15200

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 35 --- 200 V
CURRENT: 15.0A

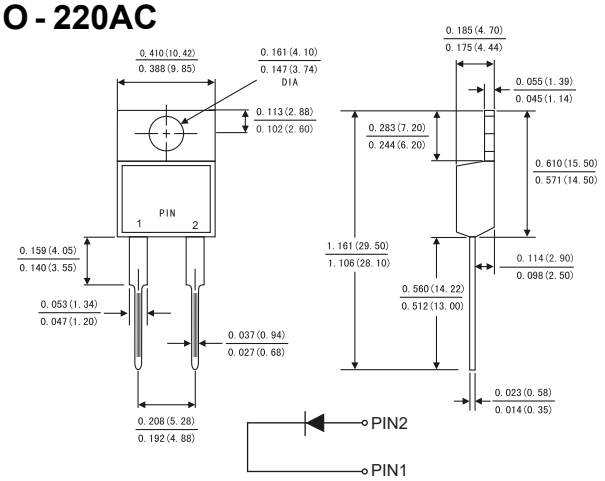
FEATURES

- ◇Metal-semiconductor junction with guard ring
- ◇Epitaxial construction
- ◇Low forward voltage drop,low switching losses
- ◇High surge capability
- ◇For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- ◇The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇Case:JEDEC TO-220AC,molded plastic
- ◇Terminals: Axial lead ,solderable per MIL- STD-750,Method 2026
- ◇Polarity: As marked
- ◇Weight: 0.08ounces,2.24 grams
- ◇Mounting position: Any

TO - 220AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

	Symbols	SR 1535	SR 1545	SR 1550	SR 1560	SR **15100**	SR 15150	SR 15200	Units
Maximum repetitive peak reverse voltage	V_{RRM}	35	45	50	60	100	150	200	Volts
Maximum RMS voltage	V_{RMS}	25	32	35	42	70	105	140	Volts
Maximum DC blocking voltage	V_{DC}	35	45	50	60	100	150	200	Volts
Maximum average forward rectified current See Fig. 1	$I_{(AV)}$	15.0							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 15 A	V_F	0.60		0.75		0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) T_c =25℃	I_R	0.2							mA
T_c =125℃		30			50				
Typical thermal resistance (Note 2)	$R_{\theta JC}$	3.0							℃/W
Operating junction temperature range	T_J	-65 to+150							℃
Storage temperature range	T_{STG}	-65 to+150							℃

NOTE: 1. Pulse test:300us pulse width,1% duty cycle.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3.Thermal resistance junction to ambient

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FIG.1-FORWARD CURRENT DERATING CURVE

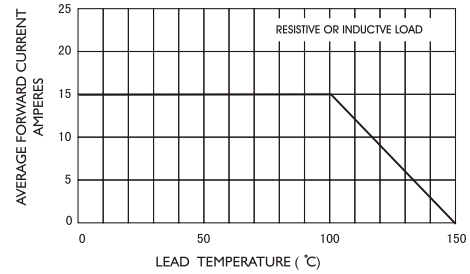


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

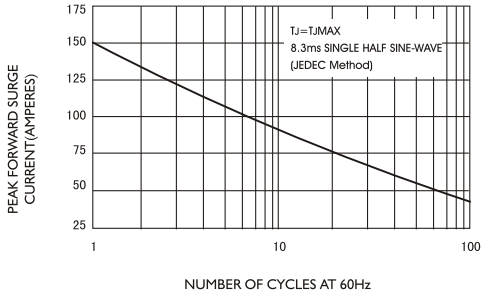


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

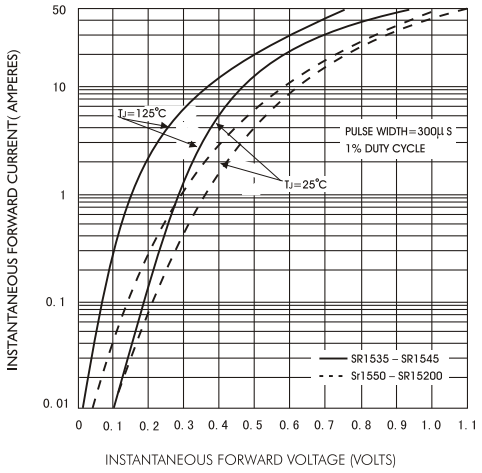


FIG.4-TYPICAL REVERSE CHARACTERISTICS

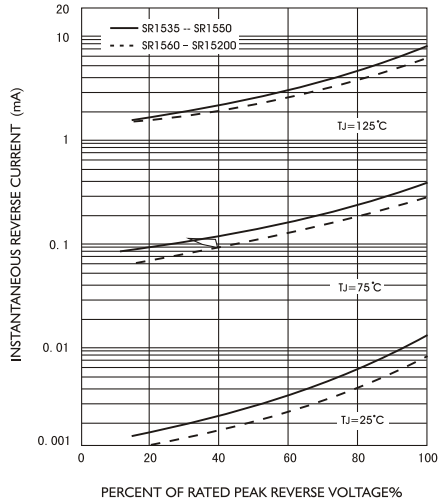


FIG.5-TYPICAL JUNCTION CAPACITANCE

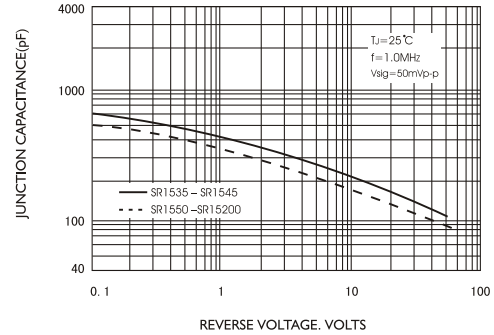


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

