Low forward voltage Schottky Barrier Rectifier

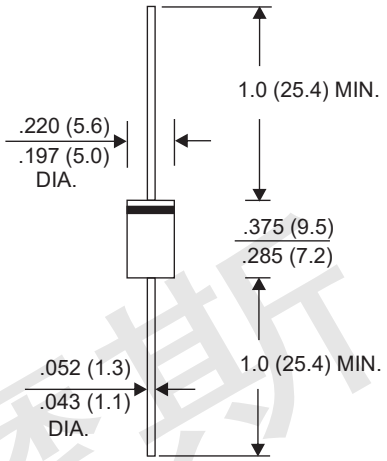
SR5200L 200 V 5.0A

RoHS COMPLIANT

FEATURE

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
  260°C /10sec/ 0.375" lead length at 5 lbs tension

DO-27(DO-201AD)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity: color band denotes cathode
- Mounting position: any

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	SR5200L	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS Voltage	V_{RMS}	140	V
Maximum DC blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at TL=90°C	$I_{F(AV)}$	5.0	A
Peak Forward Surge Current 8.3ms single half Sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120.0	A
Maximum Forward Voltage at 5.0A DC	V_F	0.8	V
Maximum DC Reverse Current @T_A=25℃	I_R	0.1	mA
at rated DC blocking voltage @T_A=100℃		10.0	
Typical Junction Capacitance (Note1)	C_J	205	pF
Typical Thermal Resistance (Note2)	$R_{(JA)}$	50	℃/W
Storage Temperature	T_{STG}	-55 to +150	°C
Operating Junction Temperature	T_J	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375"? 9.5mm? lead length, vertical P.C.Board Mounted.

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RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

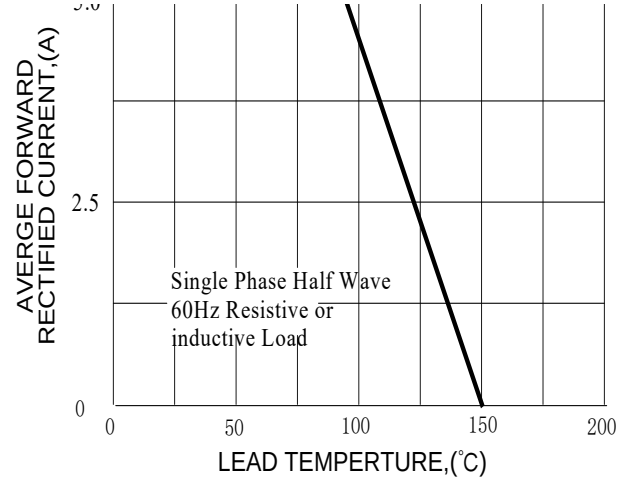


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

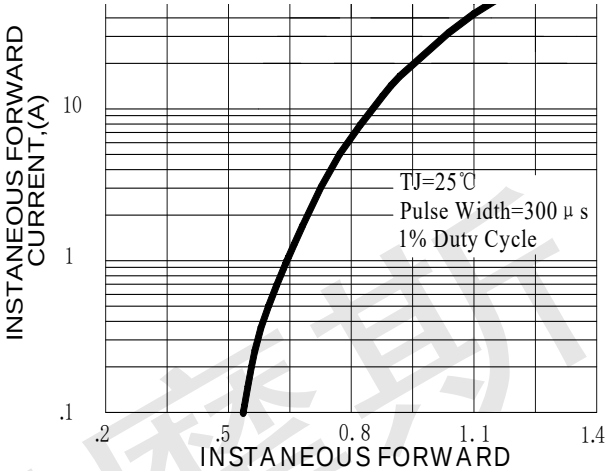


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

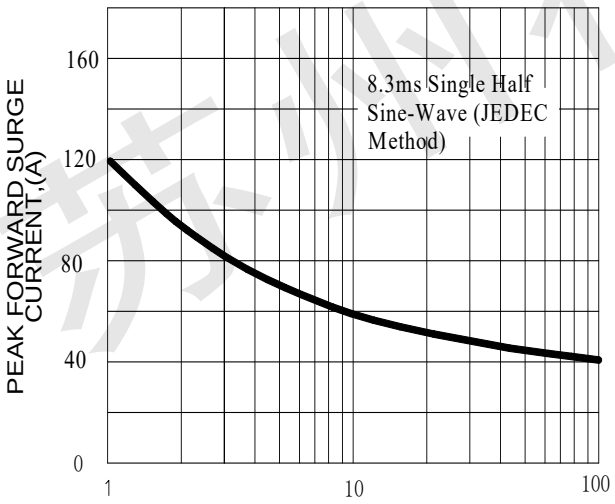
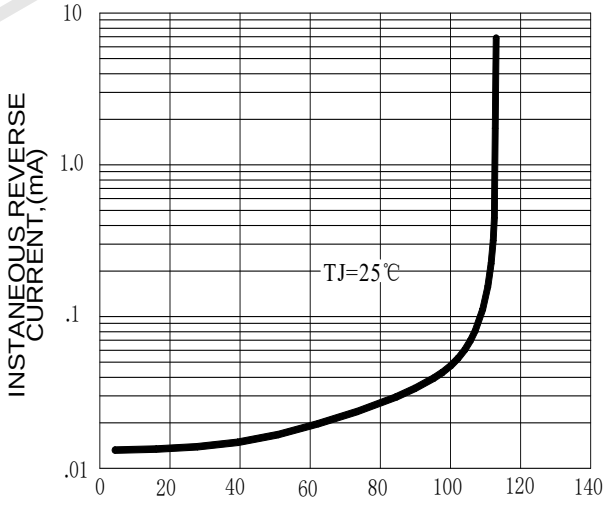


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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