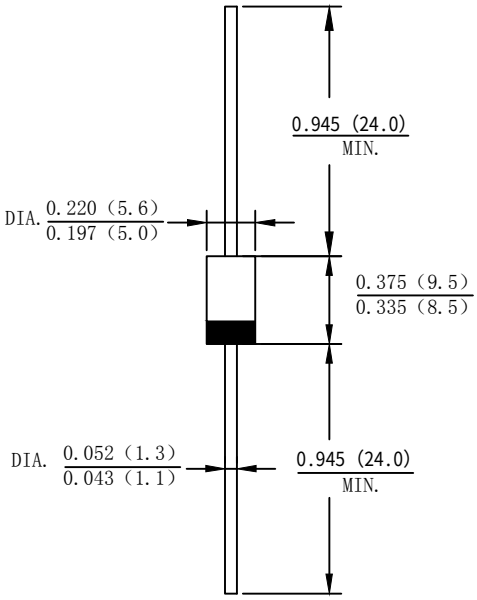
SR10V45L

10.0 AMP. Schottky Barrier Rectifiers

Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Low power consumption, high efficiency
- Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

Case: DO-201AD



Dimensions in inches and (millimeters)

Mechanical Data

- Case: DO-201AD, molded plastic
- Terminals:Plated Leads Solderable per MIL-STD-202,Method 208
- Polarity:Cathode Band
- Mounting Position:Any
- Marking:Type Number
- Lead Free:For RoHS/Lead Free Version

Maximum Ratings and Electrical Characteristics @T_A =25℃ unless otherwise specified

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

Parameter	Symbol		SR10V45L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC blocking voltage	V_{RRM} V_{RWM} V_{DC}		45	V
RMS Rectified Voltage	$V_{R(RMS)}$		32	V
Average Rectified Output Current	$I_{F(AV)}$		10	A
Non-Repetitive Peak Forward Surge8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method)	I_{FSM}		245	A
I^2t Rating for Fusing (t < 8.3ms)	I^2t		249.1	A^2s
Forward Voltage Drop T_A =25 ℃ @IF=10A	V_F	Max.	0.48	V
		Typ.	0.45	
Peak Reverse Curent T_A =25℃ At Rated DC Blocking Voltage T_A =100℃	I_R		0.2 10	mA
Typical Junction Capacitance (Note 1)	C_J		590	pF
Typical Thermal Resistance Junctionto Ambient	$R_{\theta JA}$ $R_{\theta JL}$		80 15	℃/W
Operating junction temperature range	T_J		-55 to +150	℃
storage temperature range	T_{STG}		-55 to +150	℃

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

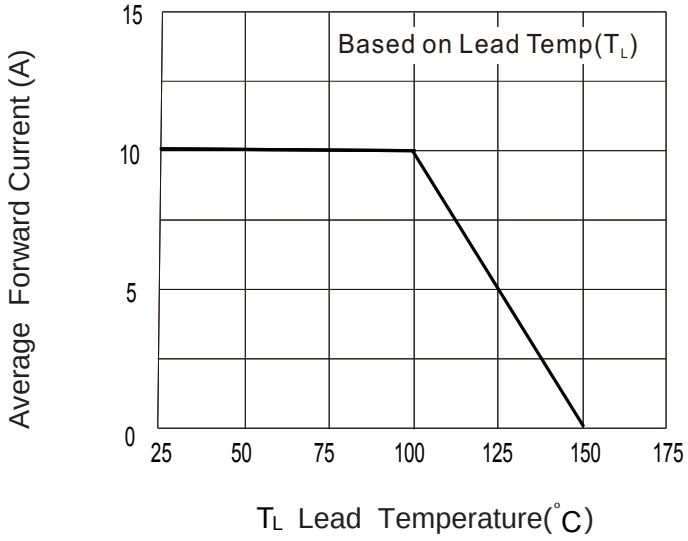


Fig. 2 Instantaneous Forward Characteristics

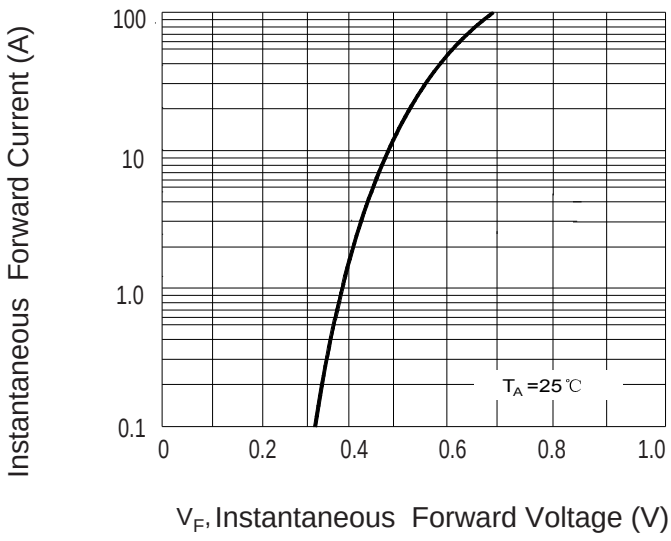


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

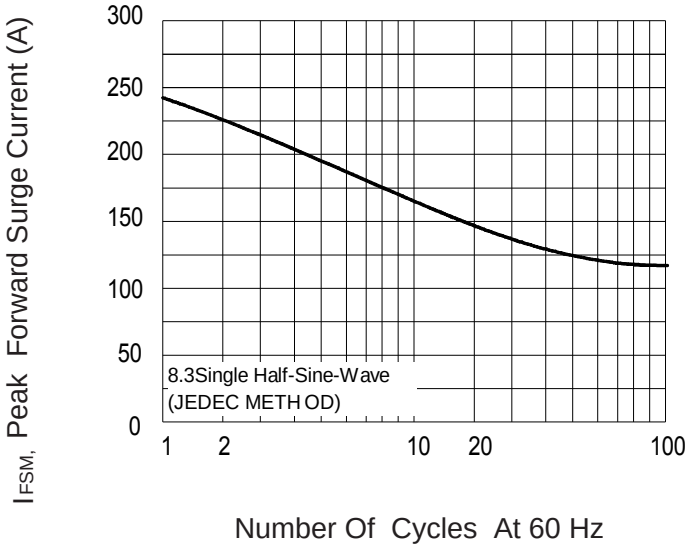
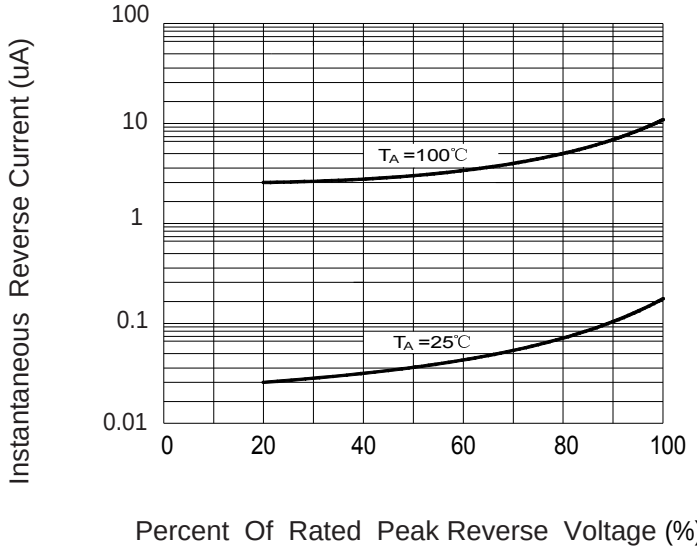


Fig. 4 Reverse Characteristics (per diode)



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