

Schottky Barrier rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. proprietary barrier technology allows for reliable operation up to 150°C junction temperature. Typical application are in switching Mode Power Supplies such as adaptors, DC/DC converters free-wheeling and polarity protection diodes.

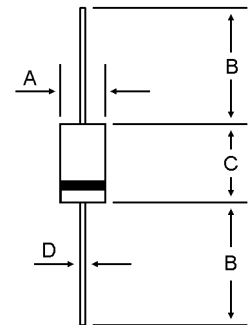
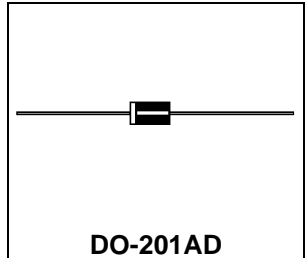
- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 150°C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O



- * *In compliance with EU RoHs 2002/95/EC directives*
The marking is indicated by part no. with. "M". ex:SR2100LM

SCHOTTKY BARRIER RECTIFIERS

**2.0 AMPERES
100 VOLTS**



MAXIMUM RATINGS

Characteristic	Symbol	SR2100L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	V
Average Rectifier Forward Current	I_O	2.0	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfwave, single phase, 60Hz)	I_{FSM}	50	A
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-65 to +150	°C

DIM	MILLIMETERS	
	MIN	MAX
A	5.00	5.60
B	25.40	---
C	8.50	9.50
D	1.20	1.30

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SR2100L	Unit
Maximum Instantaneous Forward Voltage ($I_F = 0.1$ Amp $T_C = 25^\circ\text{C}$) ($I_F = 1.0$ Amp $T_C = 25^\circ\text{C}$) ($I_F = 2.0$ Amp $T_C = 25^\circ\text{C}$)	V_F	Min. Typ. Max. --- 0.36 0.38 --- 0.65 0.70 --- 0.79 0.82	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^\circ\text{C}$) (Rated DC Voltage, $T_C = 125^\circ\text{C}$)	I_R	0.01 10	mA
Maximum Thermal Resistance Junction to case	$R_{\theta JC}$	55	°C/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & $f = 1$ MHz)	C_P	80	pF

CASE---
Transfer molded plastic

POLARITY---
Cathode indicated polarity band

SR2100L

FIG-1 FORWARD CURRENT DERATING CURVE

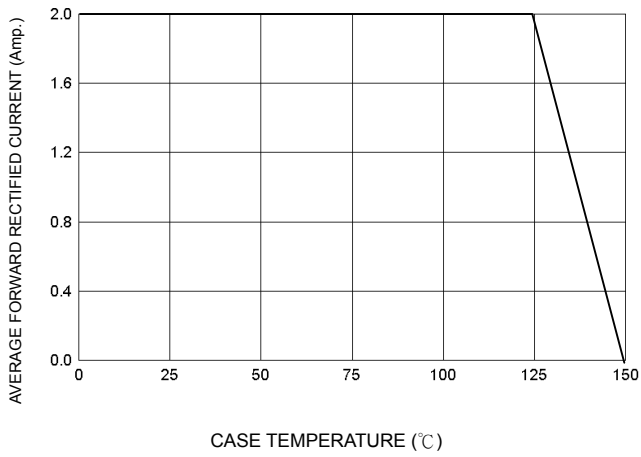


FIG-2 TYPICAL FORWARD CHARACTERISTICS

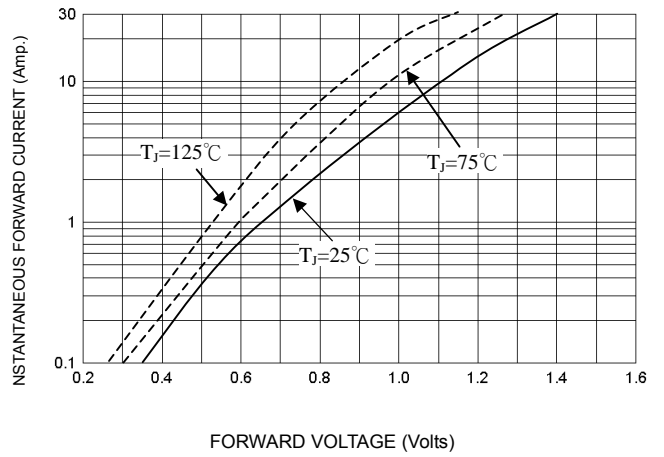


FIG-3 TYPICAL REVERSE CHARACTERISTICS

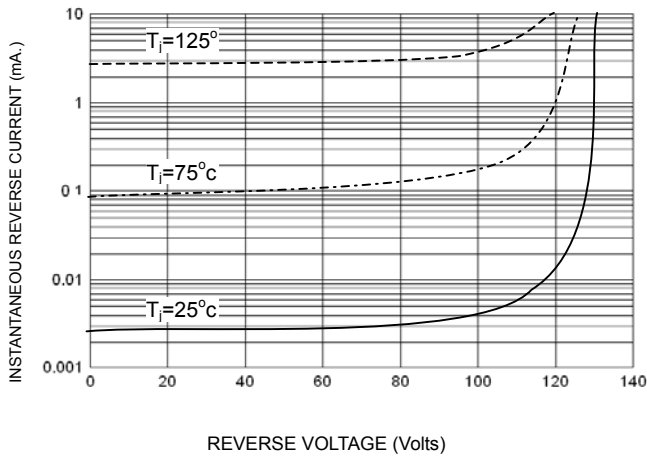


FIG-4 TYPICAL JUNCTION CAPACITANCE

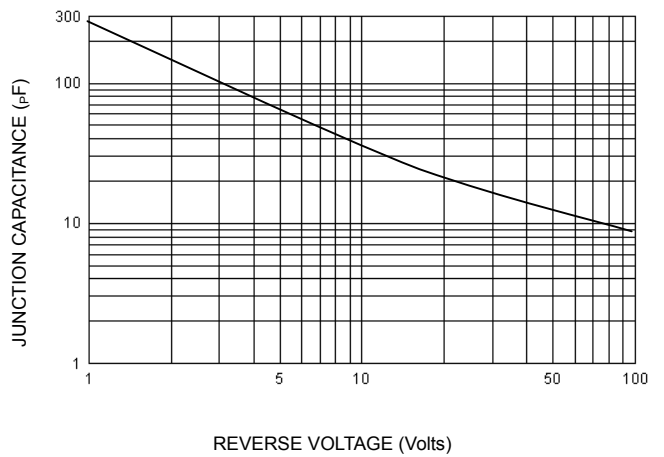
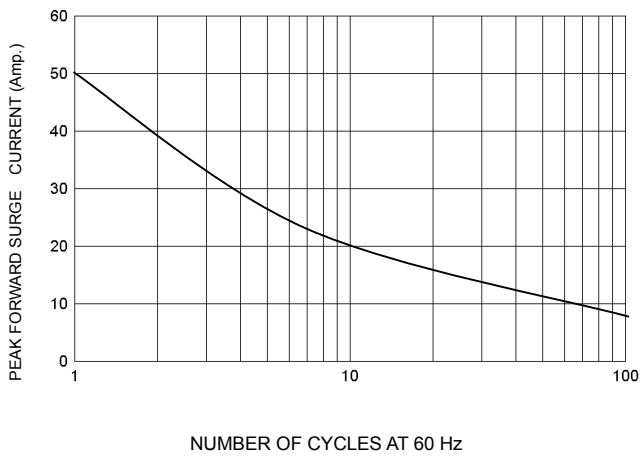


FIG-5 PEAK FORWARD SURGE CURRENT



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