MOSPEC

SR210

Surface Mount
Schottky Barrier Rectifiers

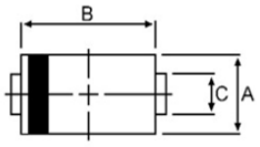
Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. proprietary barrier technology allows for reliable operation up to 150℃ junction temperature. Typical applications are in switching Mode Power Supplies such as adaptors, DC/DC converters free- wheeling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

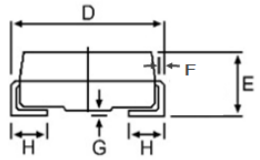
- ＊Low Forward Voltage.
- ＊Low Switching noise.
- ＊High Current Capacity
- ＊Guarantee Reverse Avalanche.
- ＊Guard-Ring for Stress Protection.
- ＊Low Power Loss & High efficiency.
- ＊High Operating Junction Temperature
- ＊Low Stored Charge Majority Carrier Conduction.
- ＊Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- ＊Pb free
- ＊In compliance with EU RoHs directives

SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES
100 VOLTS

DO-214AA(SMB)





DIM	MILLIMETERS	
	MIN	MAX
A	3.30	3.94
B	4.06	4.60
C	1.80	2.20
D	4.90	5.60
E	2.00	2.60
F	0.152	0.305
G		0.203
H	0.75	1.55

CASE---
Transfer molded plastic

OLARITY---
Cathode indicated polarity band

MAXIMUM RATINGS

Characteristic	Symbol	Value	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 half-ware, single phase, 60Hz)	I_{FSM}	50	A
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{STG}	-50 to +150	℃

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage (I_F =2.0 Amp, T_C = 25℃) (I_F =2.0 Amp, T_C = 125℃)	V_F	 ---	 0.72	 0.85	V
		---	0.57	---	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25℃) (Rated DC Voltage, T_C = 125℃)	I_R	 ---	 0.3	 500	uA
		---	300	---	
Typical Total Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_T		80		pF

FIG-1 TYPICAL FORWARD CURRENT DERATING CURVE

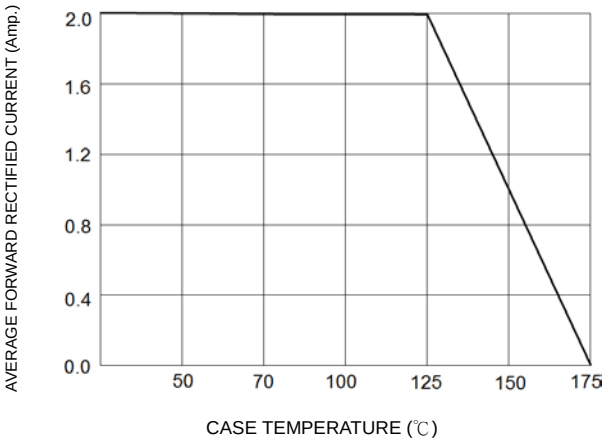


FIG-2 TYPICAL FORWARD CHARACTERISTICS

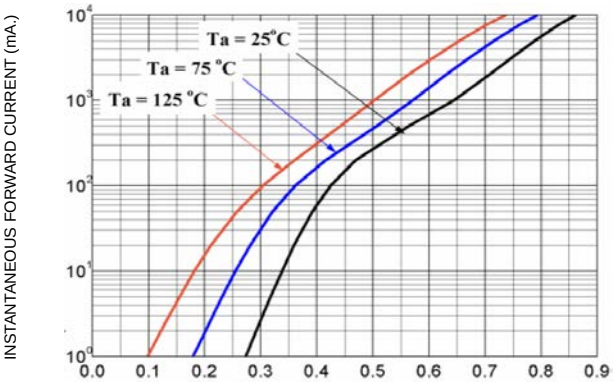


FIG-3 TYPICAL REVERSE CHARACTERISTICS

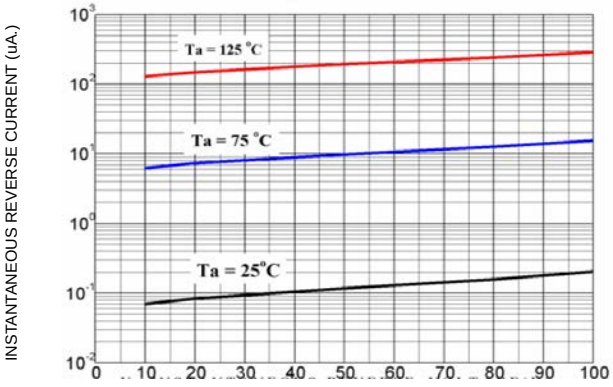


FIG-4 TYPICAL TOTAL CAPACITANCE

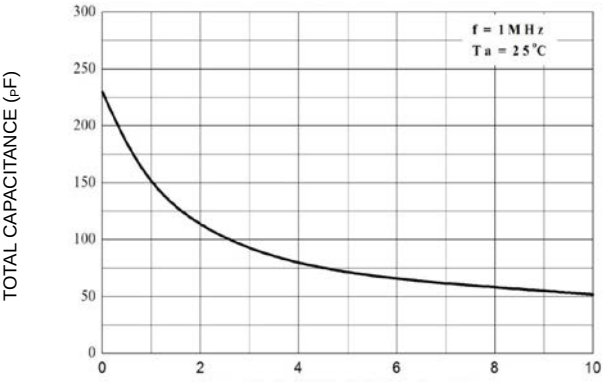
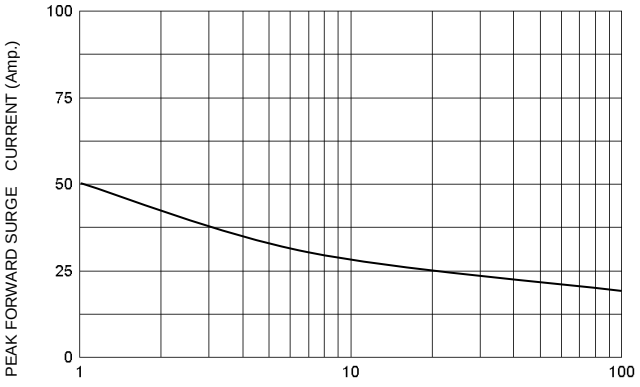


FIG-5 TYPICAL PEAK FORWARD SURGE CURRENT



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