

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The 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, freewheeling 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
- * Moisture Sensitivity Level: MSL-1



* In compliance with EU RoHs 2002/95/EC directives

MAXIMUM RATINGS

Characteristic	Symbol	SRT520	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	٧
RMS Reverse Voltage	VR _(RMS)	140	٧
Average Rectifier Forward Current	Io	5.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase,60Hz)		80	А
Operating and Storage Junction Temperature Range	T_J , T_STG	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

		1	1
Typical Thermal Resistance junction to case	$R_{\theta j-c}$	5.5	°C/w

ELECTRICAL CHARACTERISTICS

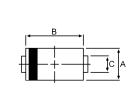
Characteristic	Symbol		SRT520)	Unit
Maximum Instantaneous Forward Voltage ($I_F = 0.1 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 5.0 \text{ Amp } T_C = 25^{\circ}C$)	V _F	Min 	Typ 0.5 0.85	Max 0.90	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R		0.02 10	0.05	mA

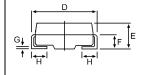
SCHOTTKY BARRIER RECTIFIERS

5 AMPERES 200 VOLTS



DO-214AA(SMB)

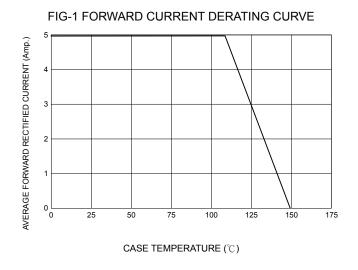


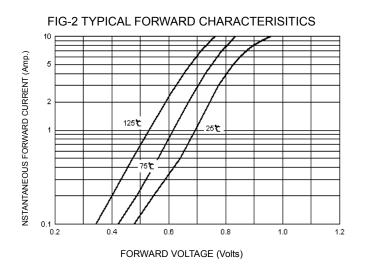


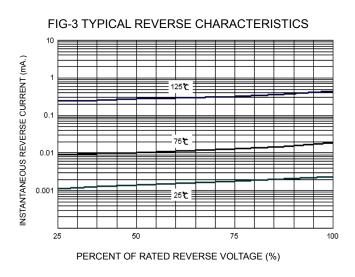
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	3.30	3.90	
В	4.20	4.60	
С	1.80	2.20	
D	5.10	5.60	
Е	1.90	2.50	
F		1.30	
G		0.22	
Н	0.95	1.35	

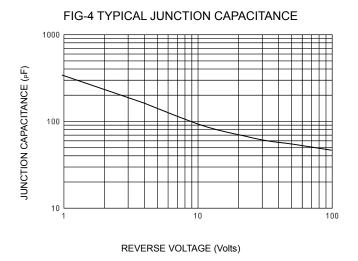
CASE---Transfer molded plastic

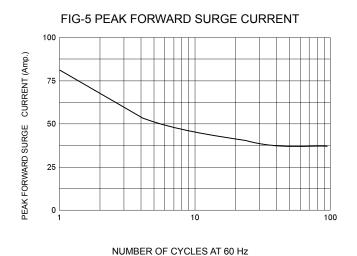
POLARITY---Cathode indicated polarity band













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