

Schottky Barrier Rectifiers

--- Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

Features

- *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:SR507M~SR5100M

MAXIMUM RATINGS

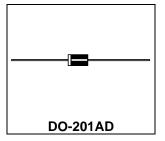
Characteristic	Symbol	SR				Unit
Cital acteristic		507	508	509	5100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	٧
RMS Reverse Voltage	VR _(RMS)	49	56	63	70	٧
Average Rectifier Forward Current	Io	5			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase,60Hz)	I _{FSM}	125			А	
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150			$^{\circ}\!\mathbb{C}$	

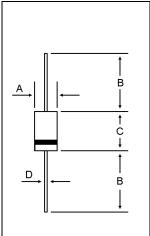
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR				Unit
Characteristic		507	508	509	5100	Oill
Maximum Instantaneous Forward Voltage (I _F =5.0 Amp)	V _F	0.75		0.85		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.5 20			mA	
Maximum Thermal Resistance Junction to Case	$R_{ heta Jc}$	30			°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	300		27	75	₽F

SCHOTTKY BARRIER RECTIFIERS

5.0 AMPERES 70-100 VOLTS

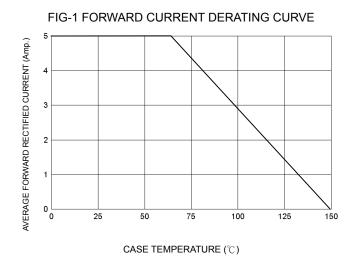


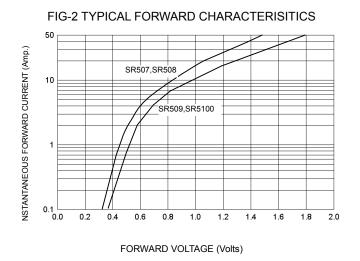


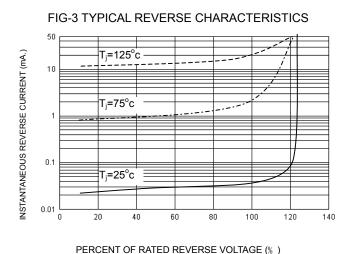
DIM	MILLIMETERS				
DIIVI	MIN	MAX			
Α	5.00	5.60			
В	25.40				
С	7.20	9.50			
D	1.18	1.22			

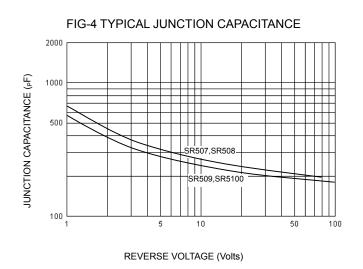
CASE---Transfer molded plastic

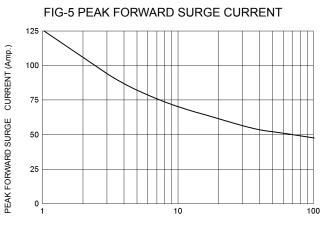
POLARITY---Cathode indicated polarity band











NUMBER OF CYCLES AT 60 Hz