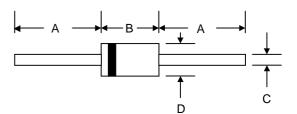
sapcon®

Switchmode Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with high temperature operation metal. The properitary barrier technology allows for reliable operation up to 150°C junction temperature. Typical application are in switching Mode power Supplies such as adaptators, Photov oltaic Solar cell protection, free-wheeling and polarity protection diodes.



Features

* Ultra Low Forward Voltage.

* Low Switching noise.

* High Current Capacity

* 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

DO-201AD					
Dim	Min	Max			
Α	25.4	_			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

MAXIMUM RATINGS

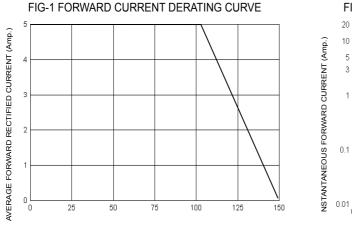
Characteristic	Symbol	SR506L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectifier Forward Current	I _{F(AV)}	5	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200	А
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	°C

THERMAL RESISTANCES

|--|

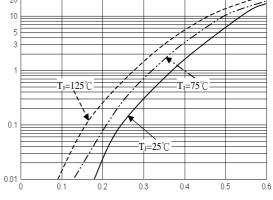
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SR506L			Unit
Maximum Instantaneous Forward Voltage		Min	Тур.	Max.	
(I _F =0.1 Amp T _C = 25°C)	V _F		0.25	0.26	V
(I _F =2.5 Amp T _C = 25℃)			0.42	0.46	
(I _F =5.0 Amp T _C = 25℃)			0.49	0.52	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, $T_C = 25^{\circ}C$)	I _R		0.3		mA
(Rated DC Voltage, $T_C = 100^{\circ}C$)			30		



CASE TEMPERATURE (°C)

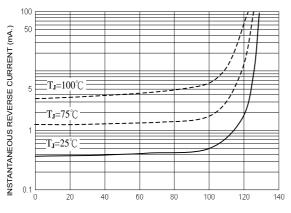
FIG-2 TYPICAL FORWARD CHARACTERISITICS



FORWARD VOLTAGE (Volts)

FIG-4 TYPICAL JUNCTION CAPACITANCE

FIG-3 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)

(L) 1000

FIG-5 PEAK FORWARD SURGE CURRENT

NUMBER OF CYCLES AT 60 Hz