

SR5100P THRU SR5200P

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 100 to 200 Volts CURRENT 5.0 Amperes

FEATURES

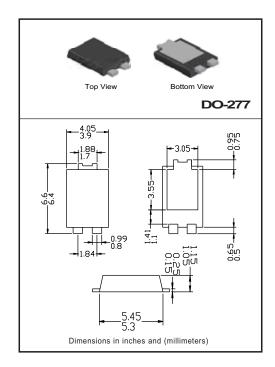
- * Low Profile Design for Smart Phone Charger
- * Ideal for SMT Mounting
- * High Forward Surge Capability
- * Low Forward Voltage Drop
- * Excellent High Temperature Stability
- * P/N suffix V means AEC-Q 101 qualified, e.g:SR5100PV

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Weight: 0.086 grams (approximate)
- * Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SR5100P SR5150P		SR5200P	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100 150		200	Volts	
Maximum RMS Voltage	V _{RMS}	70 105		140	Volts	
Maximum DC Blocking Voltage	V _{DC}	100 150		200	Volts	
Max Avg Forword Rectify Current at Ambient Temp needs To be corrected to Lead Temperature,TL	Io	5				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150				
Typical Current Square Time	I ² T	93.4			A ² S	
Typical Thermal Resistance (Note 1)	R _{θJA}	55				
,	RθJL	17				
Operating Temperature Range	TJ	-55 to + 175			٥C	
Storage Temperature Range	T _{STG}	-55 to + 175				

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	SR5100P	SR5200P	UNITS		
Maximum Instantaneous Forward Voltage	V _F	.88			Volts	
Maximum Average Reverse Current	@T _A = 25°C	I-	5.0			uA
at Rated DC Blocking Voltage	@T _A = 150°C	ıR	2.0			

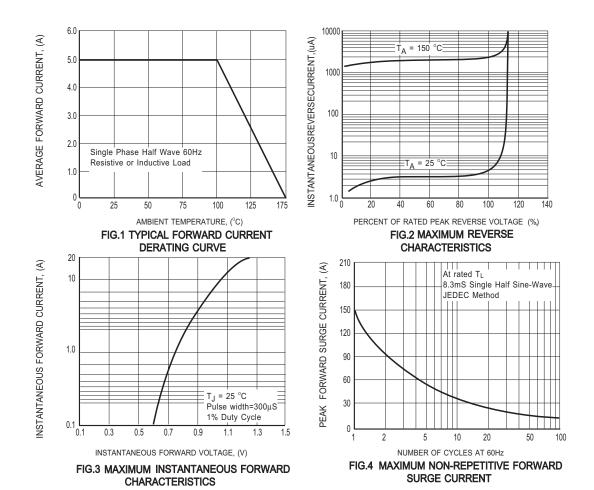
NOTES: 1. Thermal Resistance: Mounted on PCB

2. "ROHS compliant"

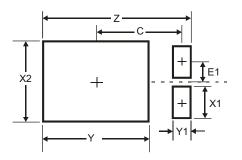
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RATING AND CHARACTERISTICS CURVES (SR5100P THRU SR5200P)



Recommendation of Mounting Pad Layout



Dimensions	Value (in mm)			
Z	6.6			
X1	1.4			
X2	3.6			
Y1	0.8			
Υ	4.7			
С	3.87			
E1	0.9			

Dimensions in millimeters

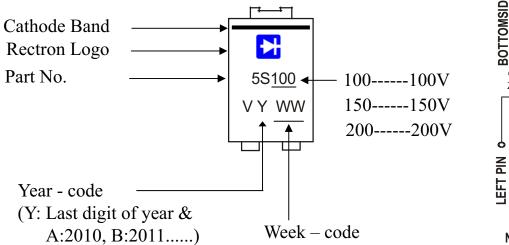


PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-277	-T/W	5,000	10,000			330	360*355*360	80,000	15.29

Marking Description



(WW: 01~52)

LEFT PIN O BOTTOMSIDI RIGHT PIN O HEAT SINK

Note: Pins Left & Right must be electrically connected at the printed circuit board.

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