WILLAS

SCS0520P THRU SCS05100P

VOLTAGE 20V ~ 100V 0.5AMP Schottky Barrier Rectifiers

PACKAGE DIMENSIONS

SOD-123P

PLASTIC PACKAGE

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250 °C for 10 Seconds At Terminals
- Low Forward Voltage

RoHS product for packing code suffix "G" Halogen free product for packing code suffix "H"

MECHANICAL DATA

Case: Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

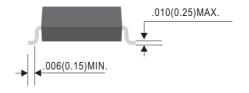
method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

.140(3.85) .140(3.55) .112(2.85) .100(2.55) .037(0.95) .053(1.35)

.006(0.15)MAX.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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TYPE NUMBER	SCS0520P	SCS0530P	SCS0540P	SCS0560P	SCS0580P	SCS05100P	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	60	80	100	V
Working Peak Reverse Voltage	20	30	40	60	80	100	V
Maximum DC Blocking Voltag	20	30	40	60	80	100	V
Average Forward Current (I _{F(AV)} @ T _J =90°C)	0.5					Α	
Reak Forward Current (I _{FSM} @ 8.3ms half sine)	5.5					Α	
Maximum Instantaneous Forward Voltage $(V_F@I_{FM} = 0.5A, T_A = 25 ^{\circ}C)$	0.45	0.5	52	0.65	0.	83	V
Maximum DC Reverse Current At Rated DC Blocking Voltage ($IR @ T_j = 25^{\circ}C$)	0.2					mA	
Typical Junction Capacitance (C _J)	30					pF	
Operating Temperature Range TJ	-50 —+150					°C	
Storage Temperature Range Tstg	-65 —+175					°C	

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
- 2. Thermal Resistance Junction to Case.

Marking Code					
SCS0520P	BB or B2				
SCS0530P	BH or B3				
SCS0540P	BJ or B4				
SCS0560P	BS				
CSC05100P	BT				

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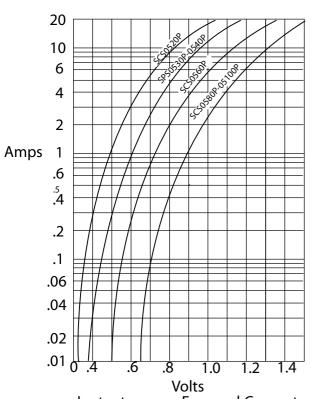
SCS0520P THRU SCS05100P

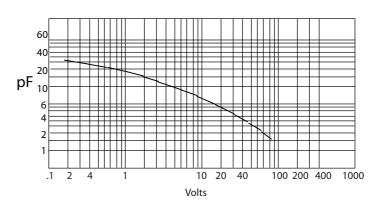
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RATING AND CHARACTERISTIC CURVES (SCS0520P THRU SCS05100P)

FIG.1 TYPICAL FORWARD CHARACTERISTICS

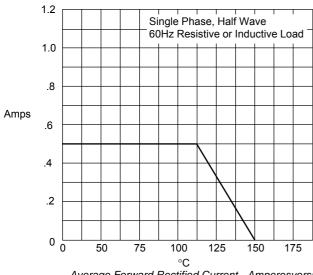
FIG.2-JUNCTION CAPACITANCE





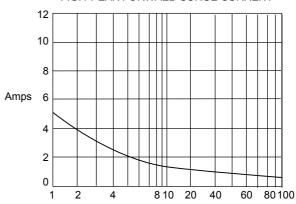
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts Amps

FIG.3-FORWARD DERATING CURVE



Average Forward Rectified Current - Amperesversus Ambient Temperature - °C

FIG.4-PEAK FORWAED SURGE CURRENT



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles