SRS1020 THRU SRS1060

SCHOTTKY BARRIER RECTIFIER



REVERSE VOLTAGE: 20 to 60 VOLTS FORWARD CURRENT: 10.0 AMPERE

FEATURES

- · For surface mounted application
- · Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · High capability
- · Low power loss, high efficiency
- \cdot High current capability, low V_{F}
- · High surge capacity
- · For use in low voltage, high frequency inverters, free whelling, and polarity protection applications

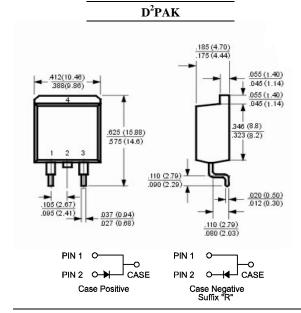
MECHANICAL DATA

Case: Molded plastic, D²PAK

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202

method 208 guaranteed Polarity: As marked Mounting position: Any Weight: 0.06ounce, 1.70gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SRS1020	SRS1030	SRS1040	SRS1050	SRS1060	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current	т .	10.0					
See Fig. 1	$I_{(AV)}$			10.0			Amp
Peak Forward Surge Current,							
8.3ms single half-sine-wave	I_{FSM} 250						Amp
superimposed on rated load (JEDEC method)							
Maximum Forward Voltage	X 7	0.55 0.70					Valta
at 10.0A DC and 25℃	$\mathbf{V_F}$	0.55			0.70		Volts
Maximum Reverse Current at T _C =25℃	т	1.0					
at Rated DC Blocking Voltage $T_C=125^{\circ}C$	I_R	50					mAmp
Typical Junction Capacitance (Note 1)	C_{J}	600		400		pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.0					°C/W
Operating Temperature Range	T_{J}		-55 to +125		-55 to	o +150	°C
Storage Temperature Range	Tstg	-55 to +150					င

NOTES:

- 1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Case Per Leg





RATINGS AND CHARACTERISTIC CURVES

