

SR3030PT thru SR30150PT

REVERSE VOLTAGE - 30 to 100 Volts SCHOTTKY BARRIER RECTIFIERS FORWARD CURRENT - 30.0 Amperes TO-3P FEATURES .203(5.16) .645(16.4) •Metal of silicon rectifier , majority carrier conduction .625(15.9) .193(4.90) .135(3.4) .245(6.2) Guard ring for transient protection .085(2.16) .115(2.9) .820(5.7) .075(1.90) Low power loss, high efficiency High current capability, low VF .093(2.30) High surge capacity .076(1.97) Plastic package has UL flammability .858(21.8) classification 94V-0 .820(20.8) • For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications .095(2.4) .085(2.1) 127(3.22) MECHANICAL DATA .160(4.1) .117(2.97) .140(3.5) Case: TO-3P molded plastic .086(2.18) .795(20.2) .076(1.93) Polarity: As marked on the body .775(19.7) .030(0.76) •Weight: 0.2ounces, 5.6 grams .020(0.51) Mounting position :Any 225(5.7) .048(1.22) .205(5.2) .044(1.12) Dimensions in inches and (millimeters) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20% SR SR SR SR SR SR SR SYMBOL UNIT CHARACTERISTICS 3030F 040F 3050F 060F ารกต 100 150F Maximum Recurrent Peak Reverse Voltage VRRM 30 40 50 60 80 100 150 V Maximum RMS Voltage 21 28 42 56 70 105 v **V**RMS 35 150 v Maximum DC Blocking Voltage VDC 30 40 50 60 80 100 Maximum Average Forward 30 I(AV) A Rectified Current (See Fig.1) @Tc=95°C Peak Forward Surge Current 8.3ms Single Half Sine-Wave IFSM 275 А Super Imposed on Rated Load (JEDEC Method) VF 0.55 0.70 0.85 0.95 v Peak Forward Voltage at 15.0A DC Maximum DC Reverse Current @TJ=25℃ 1.0 IR mΑ 75 at Rated DC Bolcking Voltage @TJ=100℃ 700 Typical Junction Capacitance (Note1) СJ pF Typical Thermal Resistance (Note2) Rejc 2.0 °C/W -55 to + 125 ТJ Operating Temperature Range °C Storage Temperature Range Tstg -55 to + 150 °C NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.

2. Thermal resistance junction to case.

RATING AND CHARACTERTIC CURVES SR3030PT thru SR30150PT



