

II. Schottky Rectifier

2.0A Schottky Rectifier SR220~SR2200

(Package: DO-15)

<p>FEATURES</p> <ul style="list-style-type: none"> The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Metal silicon junction, majority carrier conduction Low power loss, high efficiency High forward surge current capability High temperature soldering guaranteed <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case : JEDEC DO-15 molded plastic body Terminals : Plated axial leads, solderable per MIL-STD-202E, Method 208C guaranteed Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.35 grams 	<p>Case: DO-15 Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Ratings at 25° ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2100	SR 2150	SR 2200	Units						
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts						
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts						
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts						
Maximum average forward rectified current at derating lead temperature	I _O	2.0									Amps						
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60									Amps						
Maximum instantaneous forward voltage at 2.0A DC	V _F	0.55			0.70			0.85			Volts						
Maximum average reverse current Ta = 25°C at rated DC blocking voltage	I _R	0.2									mA						
Typical thermal resistance (Note 1)	R _{th-JA}	45									°C/W						
	R _{th-JL}	15															
Typical junction capacitance (Note 2)	C _j	180									PF						
Operating junction temperature range	T _j	-55 to +125			-55 to +150			-55 to +150			°C						
Storage temperature range	T _{stg}	-55 to +150									°C						

Notes:

1. Thermal resistance : At 9.5mm lead lengths, PCB mounted.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Ratings and Characteristic Curves of SR220~SR2200

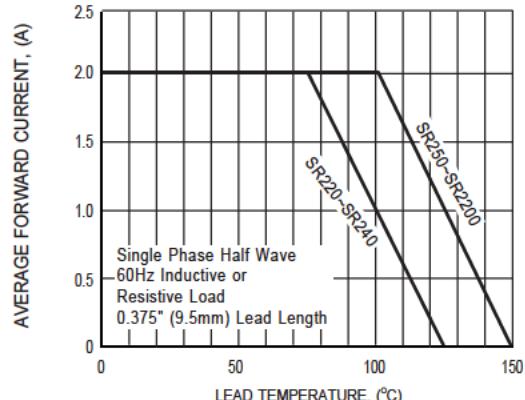


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

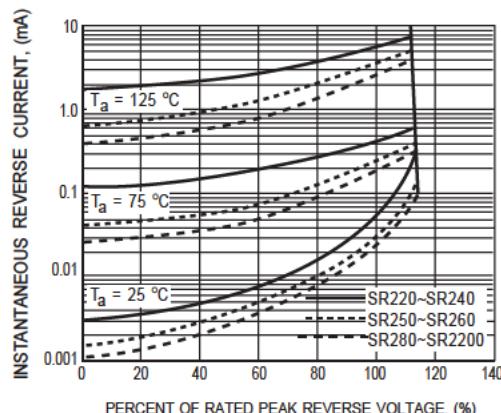


FIG.2 TYPICAL REVERSE CHARACTERISTICS

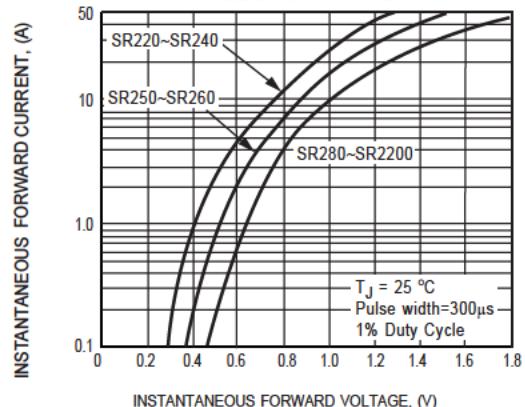


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

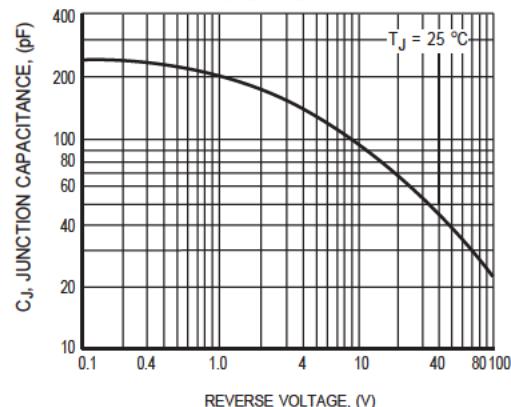


FIG.4 TYPICAL JUNCTION CAPACITANCE

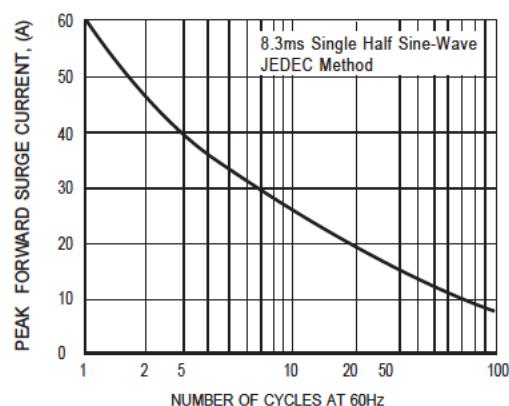


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT