



SR220 THRU SR2A0

2.0 AMPS. SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
2.0 Amperes

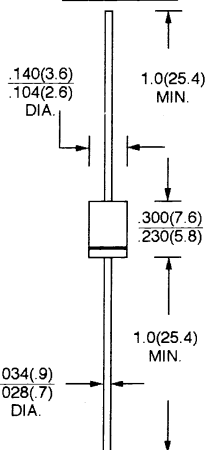
FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: DO-41 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
- * Weight: 0.39 grams

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		Symbols	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2A0	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	V _{olts}
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	57	71	V _{olts}
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	V _{olts}
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length of T _L = 75°C		I _(AV)	2.0						A _{mps}	
Peak Forward Surge Current 8.3 ms single half sine – wave superimposed on rated load (JEDEC method)		I _{FSM}	50.0						A _{mps}	
Maximum Instantaneous Forward Voltage of 2.0A (Note 1)		V _F	0.55		0.70		0.85		V _{olts}	
Maximum Instantaneous reverse Current of rated DC blocking voltage (Note 1)	T _A = 25°C	I _R	1.0						mA	
	T _A = 100°C		20							
Typical junction capacitance (Note 3)		C _J	170						pF	
Typical thermal resistance (Note 2)		R _{θJA}	35.0						°C/W	
Operating junction temperature range		T _J	– 65 to + 125						°C	
Storage temperature range		T _{STG}	– 65 to + 150						°C	

NOTE: (1) Pulse test: 300 μs pulse width, 1% duty cycle
(2) Thermal resistance from junction to ambient, P. C. B. mounted with 0.375" (9.5mm) lead length with 1.5 x 1.5" (38 x 38mm) copper pads
(3) Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (SR220 THRU SR2A0)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

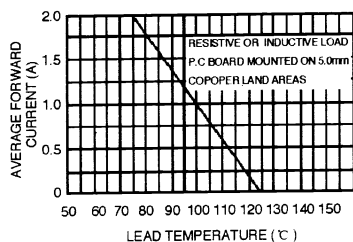


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

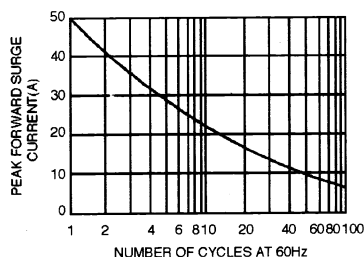


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

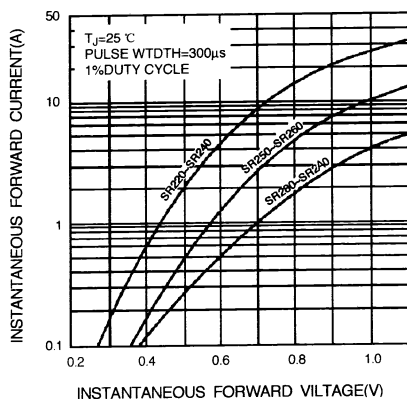


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

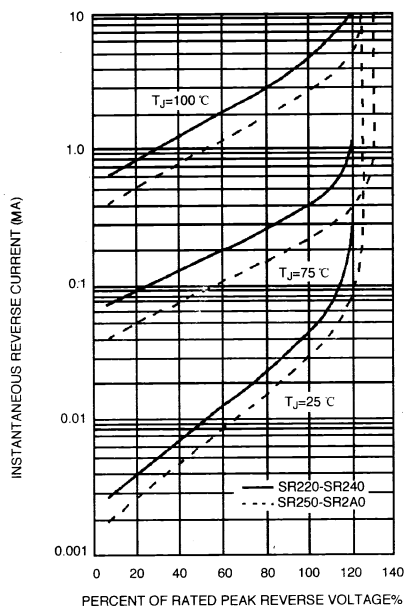


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

