



SR220 THRU SR2A0

2.0 AMPS. SCHOTTKY BARRIER RECTIFIERS



FEATURES

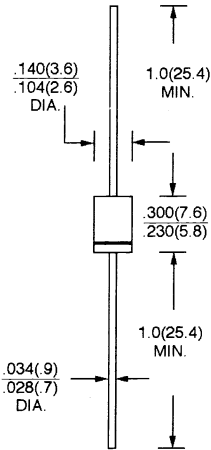
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

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: 0.39grams

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
2.0 Amperes

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 $T_L = 75^\circ\text{C}$	$I_{(AV)}$	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)	$T_A = 25^\circ\text{C}$	1.0							mA
	$T_A = 100^\circ\text{C}$	20							
Typical junction capacitance (Note 3)	C_J	170							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	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

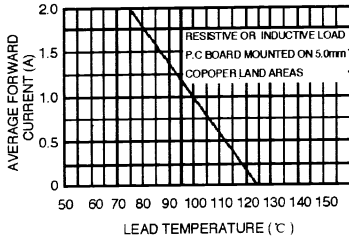


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

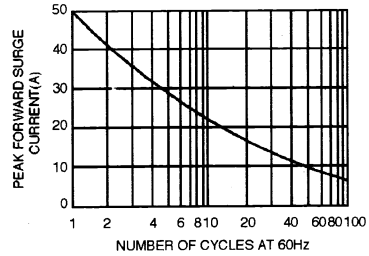


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

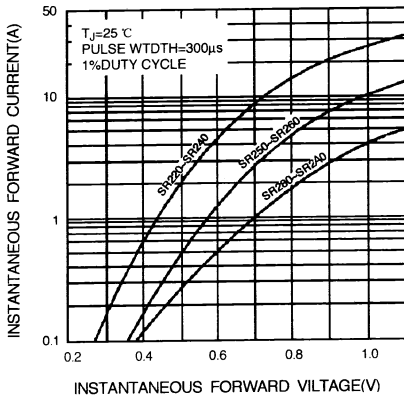


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

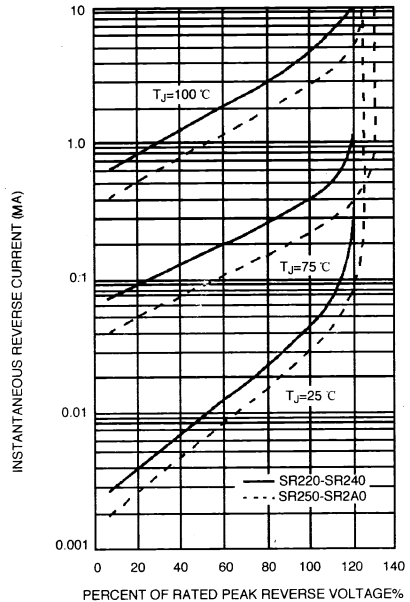


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

