

SR102 thru SR110

MINIATURE SCHOTTKY BARRIER RECTIFIER

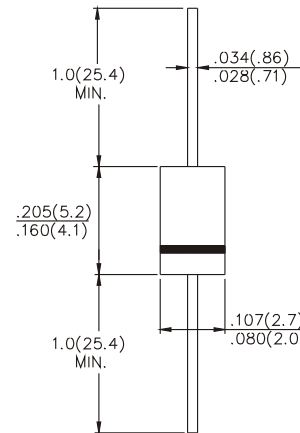


**CHENG-YI
ELECTRONIC**



VOLTAGE RANGE
20 TO 100 Volts
CURRENT
1.0 Amperes

DO-41



FEATURES

- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability
- High reliability
- High surge capability

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: MIL-STD-202 method 208 guaranteed
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.

	SR102	SR103	SR104	SR105	SR106	SR108	SR110	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	26	35	42	56	80	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Forward Voltage at 1.0A	0.50		0.70		0.85			V
Maximum Average Forward Rectified Current .375" Lead Length at $T_A = 75^\circ\text{C}$	1.0							A
Peak Forward Surge Current, I_{FM} (surge) : 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30							A
Maximum Full Load Reverse Current, Full Cycle Average at $T_A = 75^\circ\text{C}$	30							mA
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	0.5 10.0							mA
Typical Junction Capacitance (Note 1)	110							pF
Typical Thermal Resistance θ_{JA} (Note 2)	80							$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	-50 to +125							$^\circ\text{C}$

Notes : 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC. / 2. Thermal Resistance Junction to Ambient.

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RATING AND CHARACTERISTICS CURVES SR102 THRU SR110

