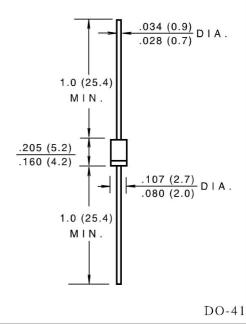


SCHOTTKY BARRIER RECTIFIER

20 to 100 Volts **VOLTAGE RANGE** SR120 SR1100 _ CURRENT 1.0 Ampere **FEATURES** · Fast switching. • Low forward voltage, high current capability. <u>.034 (0.9)</u> .028 (0.7) DIA. • Low power loss, high efficiency. • High current surge capability. • High temperature soldering guaranteed: 1.0 (25.4) 250°C/10 seconds, 0.375" (9.5mm) lead length MIN. at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant.
- Polarity: Color band denoted cathode end.
- Lead: Plastic axial lead, solderable per MIL STD 202E method 208C
- Mounting position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- \bullet Ratings at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%

		SYMBOLS	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	57	70	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward	$T_L = 75^{\circ}C(SR102-104)$								Amp	
Rectified Current 0.375"	$T_{\rm L} = 100^{\circ} C (SR105-$	I _(AV)	1.0							
(9.5mm) lead length at	108)									
Peak Forward Surge Current			40							
8.3ms single half sine - wave superimposed on		I _{FSM}								Amps
rated load (JEDEC method)										
Maximum Instantaneous Forward Voltage at 1.0A		V _F		0.55 0.75 0.85			35	Volts		
Maximum DC Reverse Current at rate $T_A = 25^{\circ}C$		I _R	0.5							mA
DC blocking voltage (Note 1)	$T_A = 100^{\circ}C$	¹ R	10							
Typical Junction Capacitance (Note 2)		Cj	110							pF
Typical Thermal Resistance (Note 3)		$R_{\theta JA}$	50							°C/W
Operating Temperature Range		T _J	(-65 to +125) (-65 to +150)						°C	
Storage Temperature Range		T _{STG}	(-65 to +150)						°C	

NOTES:

1. Pulse test: 300 $\,\mu\,{\rm s}$ pulse width, 1% duty cycle.

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

3. Thermal resistance from junction to ambient P.C.B. mounted with 0.375" (9.5mm) lead length with 1.5" x 1.5"

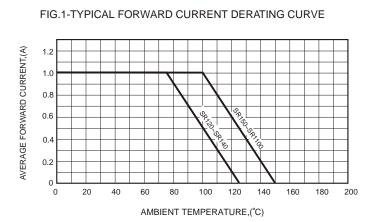
(38 X 38mm) copper pads



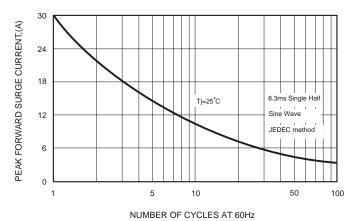
SR120 - SR1100

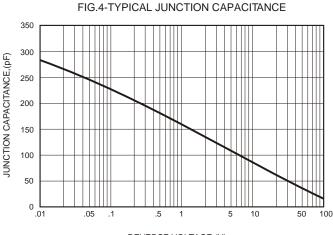
VOLTAGE RANGE CURRENT 20 to 100 Volts 1.0 Ampere

RATINGS AND CHARACTERISTIC CURVES SR120 - SR1100









REVERSE VOLTAGE,(V)

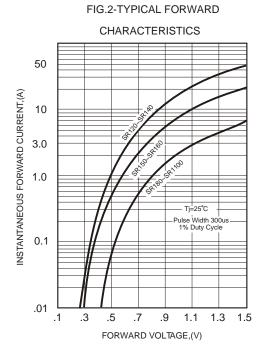


FIG.5 - TYPICAL REVERSE

