



1S2~1S10

SCHOTTKY BARRIER RECTIFIERS

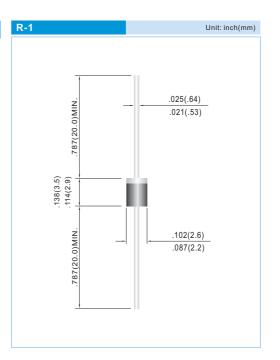
VOLTAGE 20 to 100 Volts CURRENT 1.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage,high frequency inverters ,free wheeling , and polarity protection applications.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: R-1 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Mounting Position: Any
- Weight: 0.0068 ounces, 0.1937 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	1S2	1S3	1S4	1S5	1S6	1S8	1S10	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	٧
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	٧
Maximum Average Forward Rectified Current .375"(9.5mm) lead length (See Firure 1)	I _{F(AV)}	1.0							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30						Α	
Maximum Forward Voltage at 1.0A	V _F	0.50			0.	0.70 0.		85	٧
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R		0.2 10		0.1 10				
Typical Thermal Resistance	R _{eJA}	60							°C / W
Operating Junction and Storage Temperature Rang	T_J, T_{STG}	-55 to	-55 to +125 -55 to +150						°C

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RATING AND CHARACTERISTIC CURVES

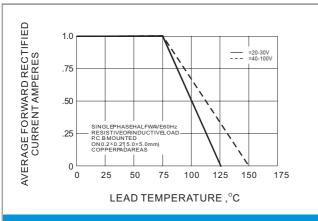


Fig.1-FORWARD CURRENT DERATING CURVE



Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

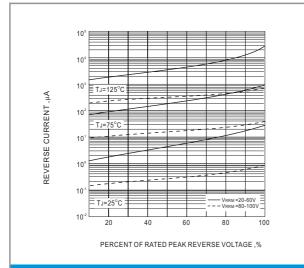


Fig.3-TYPICAL REVERSE CHARACTERISTIC

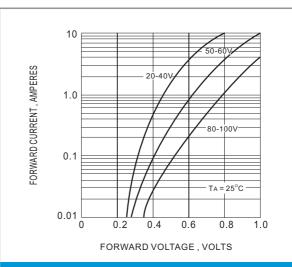


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC