



1S2~1S10

SCHOTTKY BARRIER RECTIFIERS

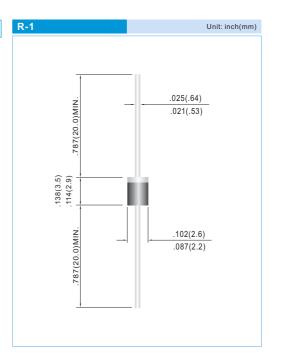
VOLTAGE 20 to 100 Volts CURRENT 1.0 Amperes

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.
- Lead free in comply with EU RoHS 2011/65/EU 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	185	1S6	1S8	1S10	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	100	V
Maximum RMS Voltage		14	21	28	35	42	56	70	٧
Maximum DC Blocking Voltage		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							Α
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		0.70		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						mA	
Typical Thermal Resistance	R _{eJA}	60							°C / W
Operating Junction and Storage Temperature Rang	T _J ,T _{STG}	-55 to +125 -55 to +150						°C	

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RATING AND CHARACTERISTIC CURVES

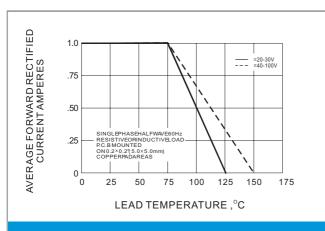


Fig.1-FORWARD CURRENT DERATING CURVE

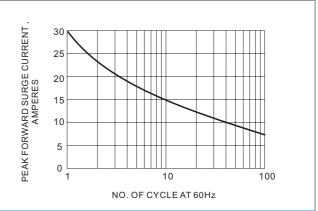


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

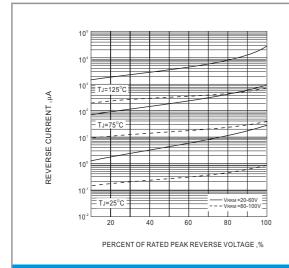


Fig.3-TYPICAL REVERSE CHARACTERISTIC

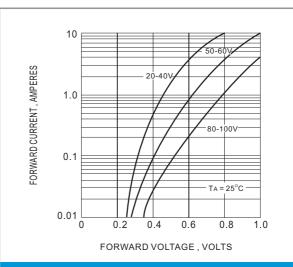


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





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Part No_packing code_Version

1S2_AX_00001

1S2_AX_10001

1S2_AY_00001

1S2_AY_10001

1S2_B0_00001

1S2_B0_10001

1S2_R2_00001

1S2_R2_10001

For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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