



DATA SHEET

SD1020T~SD10150T

SCHOTTKY BARRIER RECTIFIERS

10.0 Amperes VOLTAGE 20 to 150 Volts CURRENT

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- · Low power loss, High efficiency
- · High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

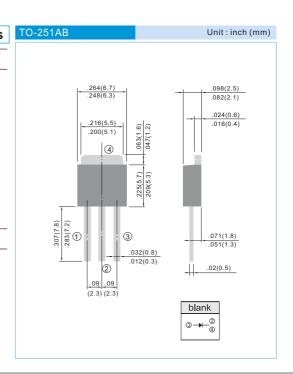
MECHANICALDATA

Case: TO-251AB molded plastic

Terminals: Solder plated, solderable per MIL-STD-202G, Method 208

Polarity: As marking

Weight: 0.015 ounces, 0.4grams.



MAXIMUM RATINGS AND DELECTRICAL CHARACTERISTICS

Ratings 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%

PARAMETER	SYMBOL	SD1020T	SD1030T	SD1040T	SD1050T	SD1060T	SD1080T	SD10100T	SD10150T	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	٧
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	٧
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at Tc =100°C	lav	10.0								А
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	IFSM	100								А
Maximum Instantaneous Forward Voltage at 10.0A	VF	0.55			0.75		0.85		0.92	V
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	I R	0.2 20								mA
Maximum Thermal Resistance	RøJC RøJA	3.0 80								°C/W
Operating Junction Temperature Range	TJ	-50 to +125								°C
Storage Temperature Range	Тѕтс	-50 to +150								°C

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RATING AND CHARACTERISTIC CURVES

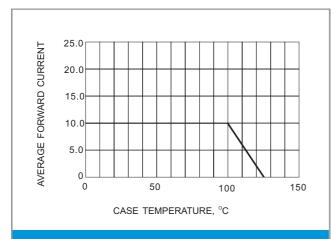


Fig.1- FORWARD CURRENT DERATING CURVE

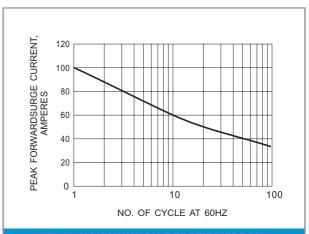


Fig.2-MAXIMUMNON-REPETITIVEPEAK FORWARD SURGE CURRENT

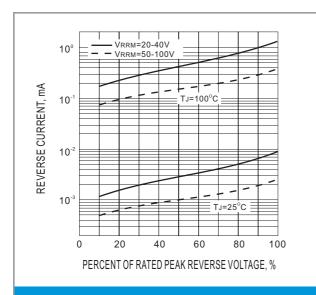


Fig.3- TYPICAL REVERSE CHARACTERISTICS

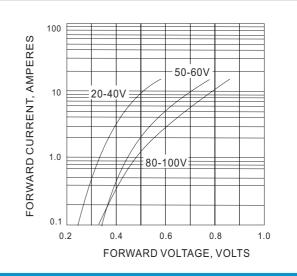


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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