



SD820T~SD8150T

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 150 Volts **CURRENT** 8 Ampere

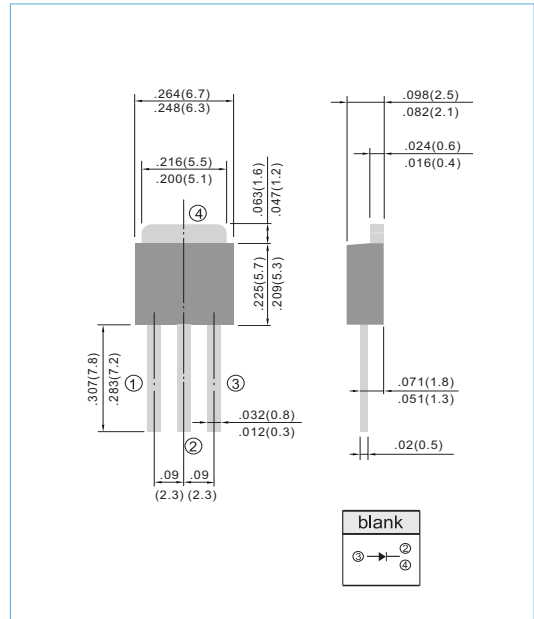
TO-251AB Unit : inch (mm)

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

MECHANICAL DATA

Case: TO-251AB molded plastic
 Terminals: Solder plated, solderable per MIL-STD-202G, Method 208
 Polarity: As marking
 Standard packaging: 16mm tape (EIA-481)
 Weight: 0.015 ounces, 0.4grams.



MAXIMUM RATINGS AND ELECTRICAL 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	SD820T	SD830T	SD840T	SD850T	SD860T	SD880T	SD8100T	SD8150T	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _c =85°C	I _{AV}	8								A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150								A
Maximum Forward Voltage at 8.0A	V _F	0.55			0.75		0.85		0.92	V
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	0.5 50								mA
Typical Thermal Resistance	R _{θJC}	6								°C / W
Operating Junction Temperature Rang	T _J	-50 to +125								°C
Storage Temperature Rang	T _J ,T _{STG}	-50 to +150								°C



RATING AND CHARACTERISTIC CURVES

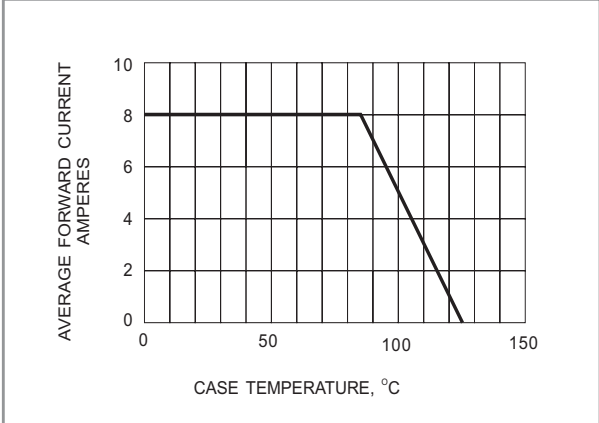


Fig.1- FORWARD CURRENT DERATING CURVE

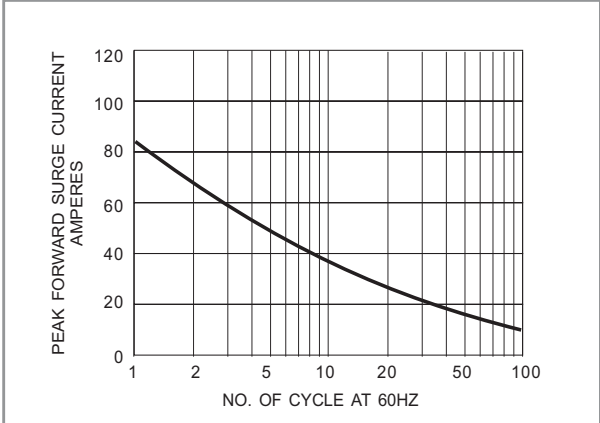


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

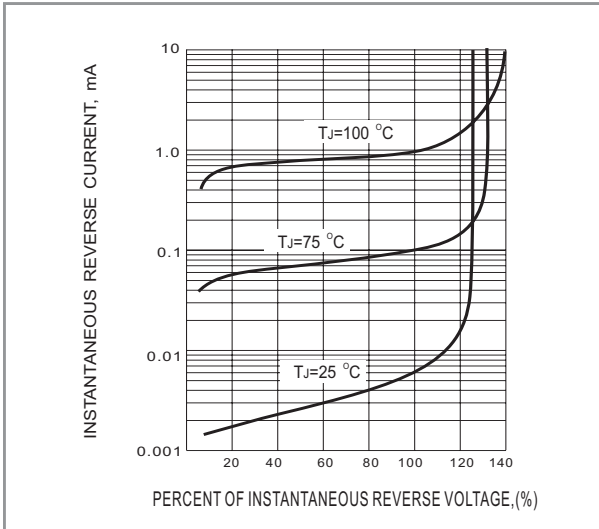


Fig.3- TYPICAL REVERSE CHARACTERISTICS

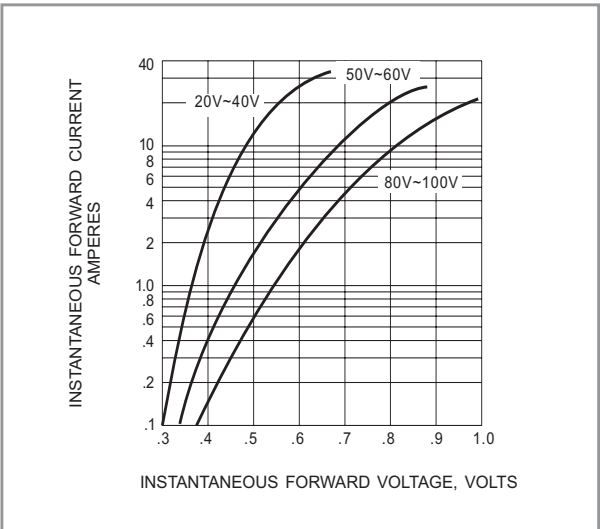


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS