

DATA SHEET

SD620CT~SD6100CT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 Volts **CURRENT** 6.0 Amperes

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
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

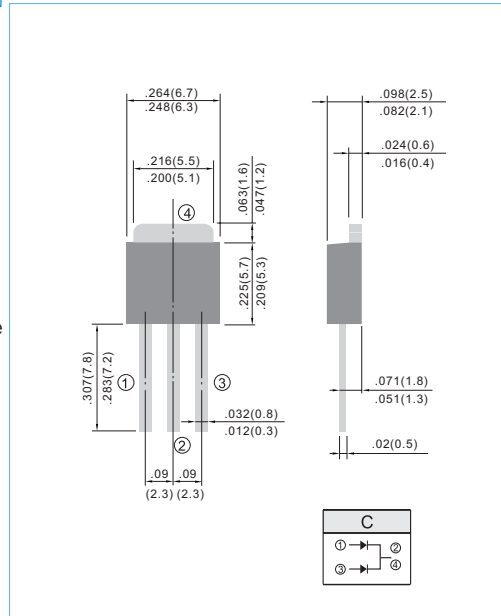
MECHANICAL DATA

Case: D PAK/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 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	SD620CT	SD630CT	SD640CT	SD650CT	SD660CT	SD680CT	SD6100CT	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	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_C = 75^{\circ}C$	I_{AV}	6.0							A
Peak Forward Surge Current .83ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	75							A
Maximum Forward Voltage at 3.0A per leg	V_F	0.55			0.70		0.85		V
Maximum DC Reverse Current $T_J = 25^{\circ}C$ at Rated DC Blocking Voltage $T_J = 100^{\circ}C$	I_R	0.2 20							mA
Typical Thermal Resistance	$R_{\theta JC}$	5							$^{\circ}C / W$
Operating Junction Temperature Rang	T_J	-50 to +125							$^{\circ}C$
Storage Temperature Rang	T_J, T_{STG}	-50 to +150							$^{\circ}C$

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Note: Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

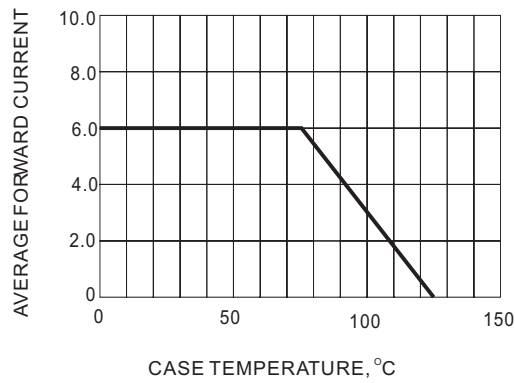


Fig. 1- FORWARD CURRENT DERATING CURVE

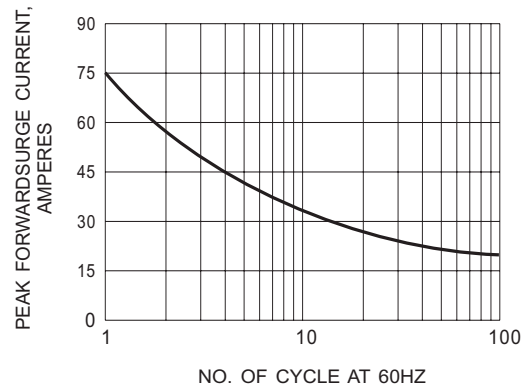


Fig. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

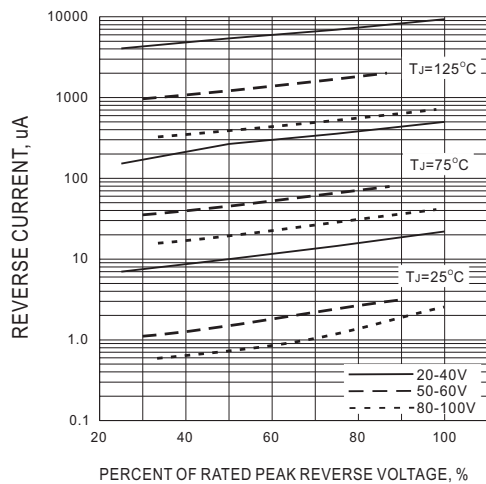


Fig. 3- TYPICAL REVERSE CHARACTERISTIC

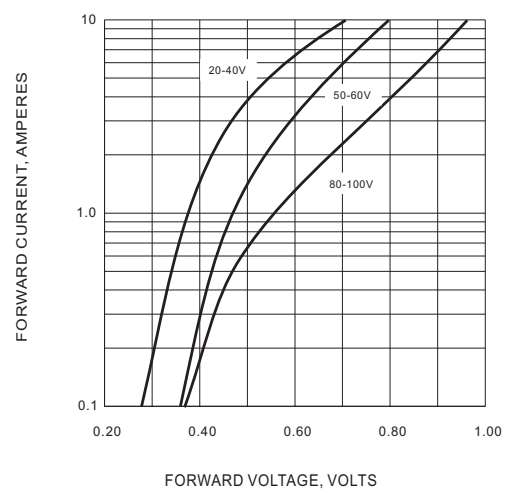


Fig. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC