



DATA SHEET

6.0 Amperes

SD620CT~SD6100CT

SCHOTTKY BARRIER RECTIFIERS

CURRENT

VOLTAGE 20 to 100 Volts

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

Unit:inch(mm) TO-251AB .264(6.7) .098(2.5) .024(0.6) .216(5.5) .063(1.6) 4 .225(5.7) .283(7.2) .071(1.8) 3 2 .02(0.5) (2.3) (2.3)

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	SD 6100CT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	V
Maximum Average Forward Current .375"(9.5mm) lead length at Tc =75°C	Īav	6.0							A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated bad(JEDEC method)	Fsm	75							A
Maximum Forward Voltage at 3.0A per leg	VF	0.55 0.70 0.85				V			
Maximum DC Reverse Current TJ=25°C at Rated DC Blocking Voltage TJ=100°C	ŀ	0 .2 20							m A
Typical Thermal Resistance	R θ JC	5							°C /W
Operating Junction Temperature Rang	ТJ	-50 to +125							°C
Storage Temperature Rang	Tj,Tstg	-50 to +150							°C

Note: Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

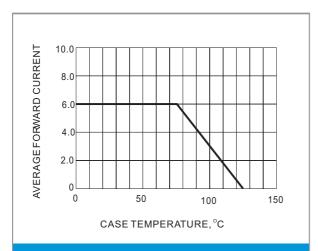


Fig.1- FORWARD CURRENT DERATING CURVE

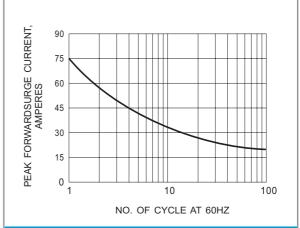


Fig.2-MAXIMUMNON-REPETITIVEPEAK FORWARD SURGE CURRENT

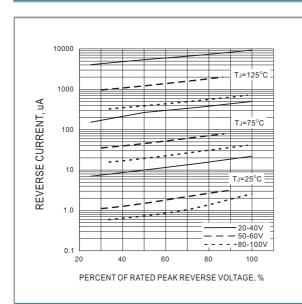


Fig.3-TYPICAL REVERSE CHARACTERISTIC

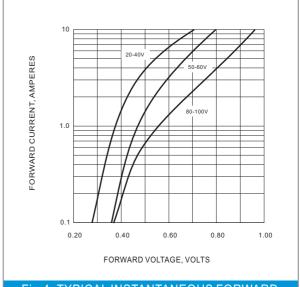


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

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