



DATA SHEET

SD520T~SD5100T

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 Volts CURRENT 5 Amperes

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

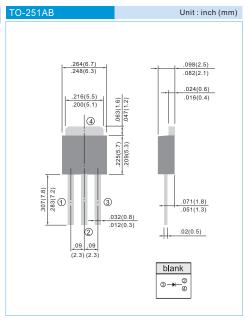
MECHANCALDATA

Case: TO-251AB molded plastic

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

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	SD520T	SD530T	SD540T	SD550T	SD560T	SD580T	SD5100T	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 Rectified Current .375"(9.5mm) lead length at Tc =75°C	lav	5.0							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	İFSM	100							Α
Maximum Forward Voltage at 5.0A	VF	0.55			0.75		0.85		V
Maximum DC Reverse Current Tc=25°C at Rated DC Blocking Voltage Tc=100°C	lr	0.2 20							mA
Maximuml Thermal Resistance	RøJC	5.0							°C / W
Operating Junction Temperature Range	TJ	-50 to +125							°C
Storage Temperature Range	Тѕтс	-65 to +150							°C

STAD-SEP.24.2003 PAGE . 1





RATING AND CHARACTERISTIC CURVES

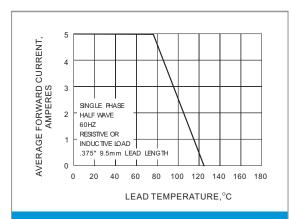


Fig.1- FORWARD CURRENT DERATING CURVE

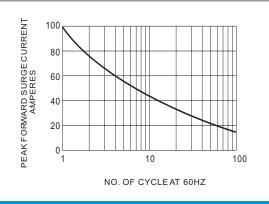


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

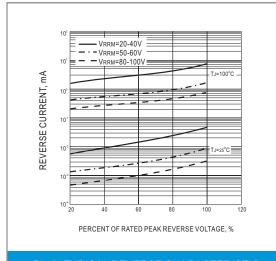


Fig.3- TYPICAL REVERSE CHARACTERISTIC

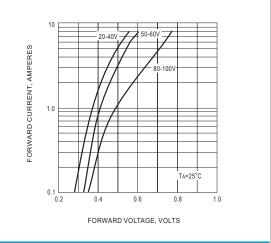


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

STAD-SEP.24.2003 PAGE . 2