



SD520T~SD560T

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

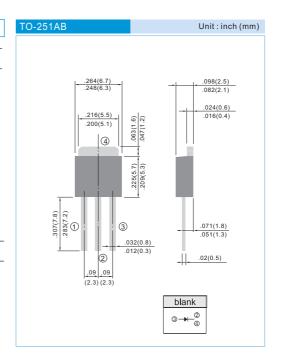
VOLTAGE 20 to 60 Volts CURRENT 5 Amperes

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
- In compliance with EU RoHS 2002/95/EC directives

MECHANCALDATA

- Case: TO-251AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.0104 ounces, 0.297 grams.



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	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current atTc =75°C	I _{F(AV)}	5.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	100					А
Maximum Forward Voltage at 5.0A	V _F	0.55 0.75			V		
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	0.2 20			0.1 20		mA
Typical Thermal Resistance	R _{euc}	5.0					°C / W
Operating Junction Temperature Range	TJ	-55 to	-55 to +125 -55 to +150			°C	
Storage Temperature Range	Тѕтс	-55 to +150					°C

STAD-APR.27.2009 PAGE . 1





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RATING AND CHARACTERISTIC CURVES

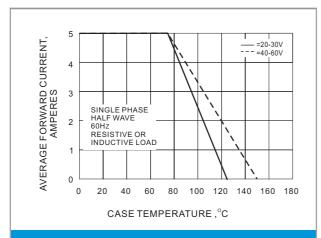


Fig.1- FORWARD CURRENT DERATING CURVE

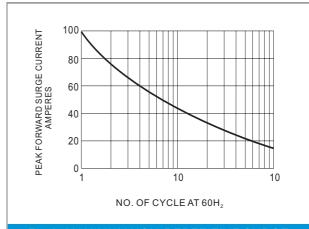
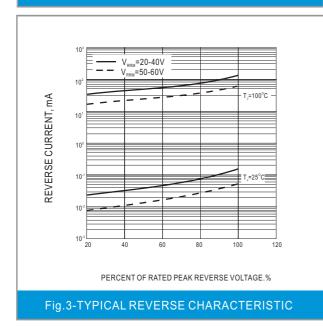


Fig.2 -MAXIMUM NON-REPETITIVE SURGE CURRENT



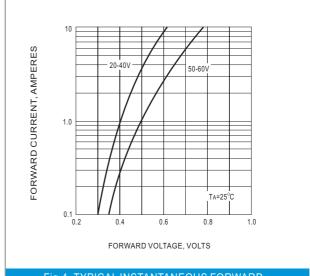


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

STAD-APR.27.2009 PAGE . 2