



DATA SHEET

SD520S~SD5100S

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

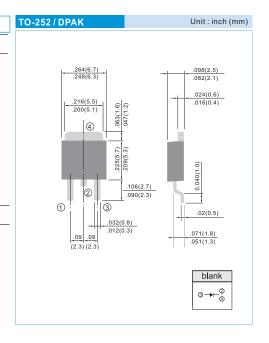
MECHANCALDATA

Case: TO-252 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	SD520S	SD530S	SD540S	SD550S	SD560S	SD580S	SD5100S	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	٧
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)	IFSM	100							А
Maximum Forward Voltage at 5.0A	VF	0.55			0.75		0.85		٧
Maximum DC Reverse Current Tc=25°C at Rated DC Blocking Voltage Tc=100°C	I R	0.2 20							mA
Maximuml Thermal Resistance	RθJC		5.0						
Operating Junction Temperature Range	TJ		-50 to +125						
Storage Temperature Range	Тѕтс	-65 to +150							°C

STAD-DEC.23.2003 PAGE . 1





RATING AND CHARACTERISTIC CURVES

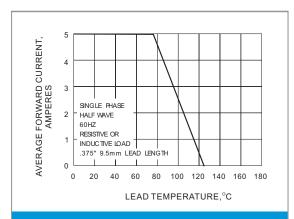


Fig.1- FORWARD CURRENT DERATING CURVE

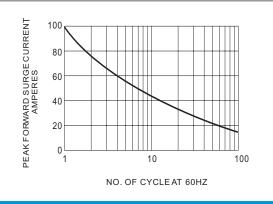


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

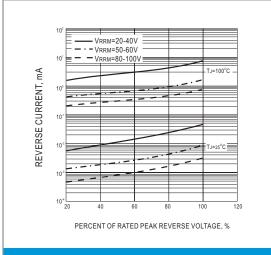


Fig.3- TYPICAL REVERSE CHARACTERISTIC

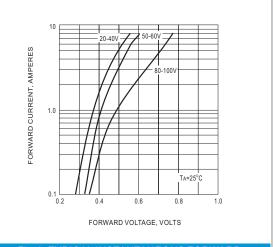


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

STAD-DEC.23.2003 PAGE . 2