

DATA SHEET

SD520S~SD5100S

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 Volts CURRENT - 5 Ampere

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¢XC/10 seconds at terminals

MECHANICAL DATA

Case: D PAK/TO-252 molded plastic

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

Polarity: As marking

Standard packaging: 16mm tape (EIA-481)

Weight: 0.015 ounces, 0.4grams.



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%

	SD520S	SD530S	SD540S	SD550S	SD560S	SD580S	SD5100S	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	V
Maximum RMS Voltage	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current at Tc=75°C	5							А
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	100							А
Maximum Instantaneous Forward Voltage at 5.0A (Note 1)	0.55			0.75		0.85		V
Maximum DC Reverse Current at Tc=25°C DC Blocking Voltage per element Tc=100°C	0.2 20							mA
Maximum Thermal Resistance (Note 2)	80							°C/W
Operating and Storage Temperature Range	-55 to +125							°C
Storage Temperature Range	-65 to +150							°C

NOTES:

1. Thermal Resistance Junction to Ambient .

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Unit: inch (mm)

.098(2.5)

.024(0.6)

.016(0.4)

040(1.0) MIN

.02(.5)

.071(1.8)

TO-252 / DPAK

063(1.6)

225(5.7 209(5.3

.032(0.8)

3

.106(2.7)

.264(6.7)

.248(6.3)

.216(5.5)

.200(5.1)

4

2

.09 .09

(2.3) (2.3)

1



