

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SD520 THRU SD5200

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 200 Volts CURRENT - 5.0 Amperes

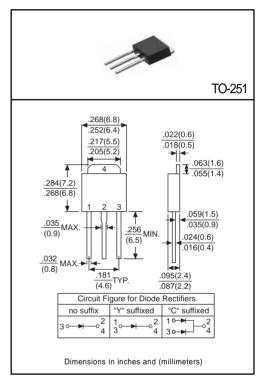
FEATURES

- * Metal to silicon rectifier majority carrier conduction
- * Low power loss, High efficiency
- * High current capability
- * Low forward voltage drop
- * High surge capacity
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per
 - MIL-STD-750, Method 2026
- * Mounting position: Any
- * Weight: 0.4 grams Approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.



		SYMBOL	SD520	SD530	SD540	SD550	SD560	SD580	SD5100	SD5150	SD5200	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at TC=75°C		Ю	5.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100									Amps
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	0.55		0.	0.70 0.		0.85		.95	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C		2.0									mAmps
	@Ta = 100°C	lr.	50									
Typical Thermal Resistance (Note1)		RθJA	80									°C/W
Typical Junction Capacitance (Note 2)		Cı	550									pF
Storage Operating Temperature Range		TJ,TSTG	-55 to + 125									°C

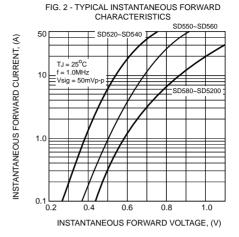
Note: 1. Mounted on PC Board with 14mm² (0.013mm thick) copper pad areas.

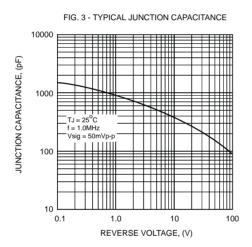
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

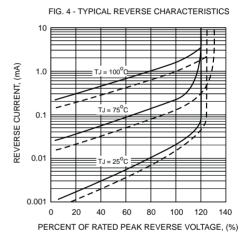
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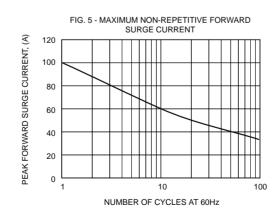
RATING AND CHARACTERISTIC CURVES (SD520 THRU SD5200)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE 5.0 AVERAGE FORWARD CURRENT, (A) 4.0 Single Phase Half Wave 60Hz 3.0 Resistive or Inductive Load 2.0 1.0 0 0 20 100 120 140 CASE TEMPERATURE, (°C)









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