DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SD520S THRU SD5200S

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts

FEATURES

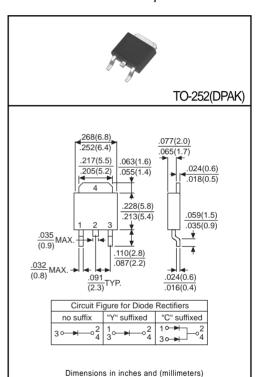
- * Metal to silicon rectifier majority carrier conduction
- * Low power loss, High efficiency
- * High current capability
- * Low forward voltage drop
- * High surge capacity
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

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

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



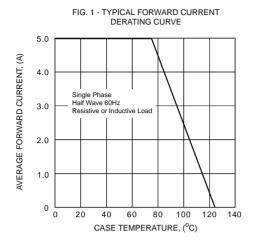
		SYMBOL	SD520S	SD530S	SD540S	SD550S	SD560S	SD580S	SD5100S	SD5150S	SD5200S	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		Vrms	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at TC=75°C		Io	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		0.75			0.85		Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C		2.0									mAmps
	@T A = 100 ℃	IR	50									
Typical Thermal Resistance (Note1)		RθJA		80								°C/W
Typical Junction Capacitance (Note 2)		CJ	550									pF
Storage Operating Temperature Range		TJ, TSTG	-55 to + 125									٥C

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.

CURRENT - 5.0 Amperes

RATING AND CHARACTERISTIC CURVES (SD520S THRU SD5100S)



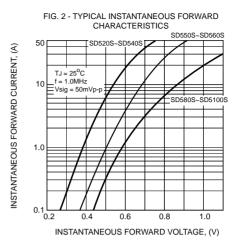
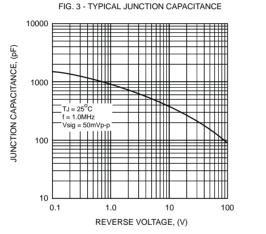
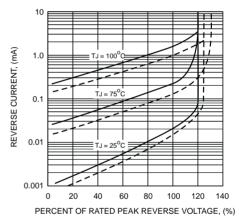
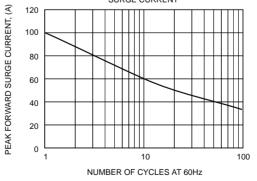


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS









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