



查询"SD530"供应商

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SD520
THRU
SD5100

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE - 20 to 100 Volts
CURRENT - 5.0 Amperes

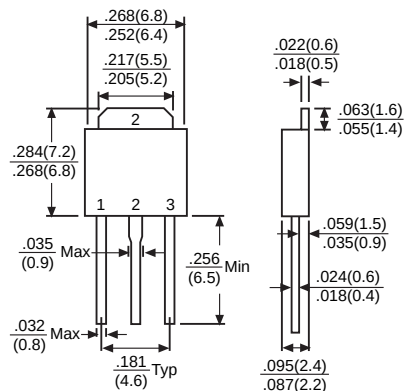
FEATURES

- * 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.

TO-251



no suffix	"Y" suffixed
3 ○ — — ○ 2	1 3 ○ — — ○ 2

Dimensions in inches and (millimeters)

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	SD520	SD530	SD540	SD550	SD560	SD580	SD5100	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at T _C =75°C		I _O	5.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	100							Amps
Maximum Instantaneous Forward Voltage at 5.0A DC		V _F	0.55			0.75		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C	I _R	2.0							mAmps
	@ T _A = 100°C		50							
Typical Thermal Resistance (Note1)		R _{θJA}	80							°C/W
Typical Junction Capacitance (Note 2)		C _J	550							pF
Storage Operating Temperature Range		T _J , T _{STG}	-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.

RATING AND CHARACTERISTIC CURVES (SD520 THRU SD5100)

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FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

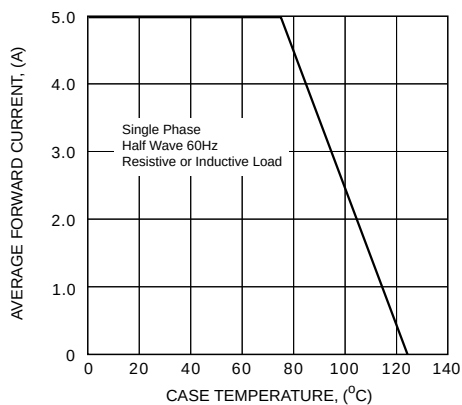


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

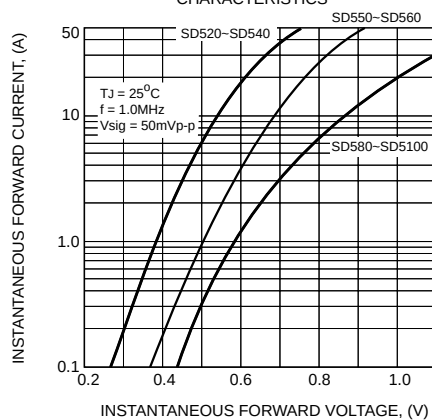


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

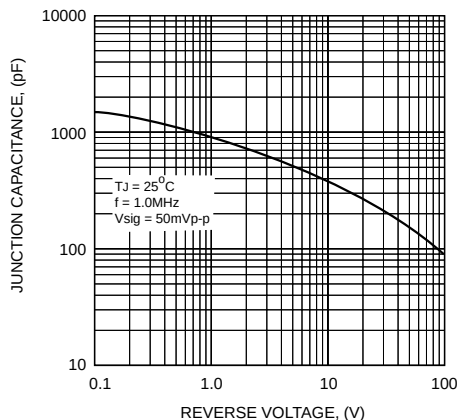


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

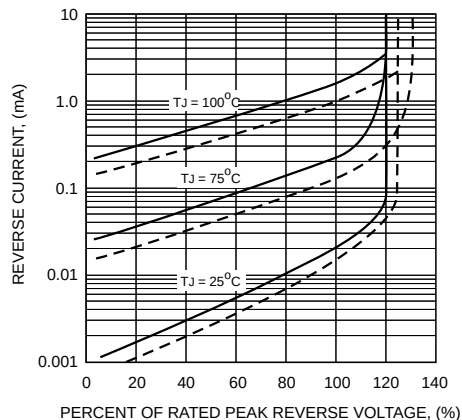
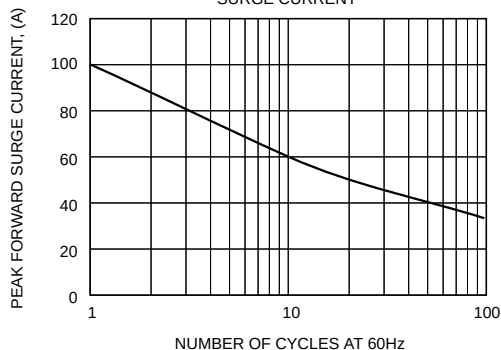


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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