DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SD1620D THRU SD16100D

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

FEATURES

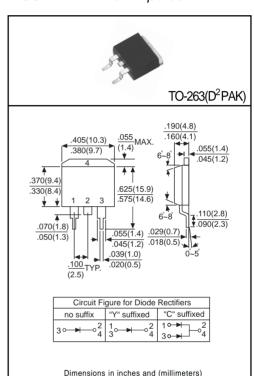
- * Metal to silicon rectifier majority carrier conduction
- * Low power loss, High efficiency
- * High current capability
- * Low forward voltage drop
- * High surge capacity
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

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: 1.7 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%.



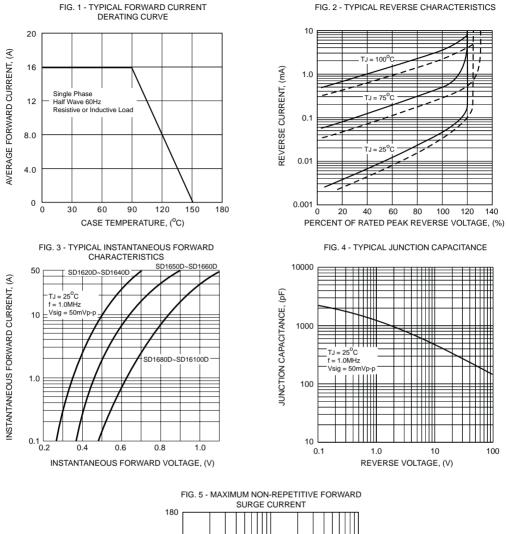
		SYMBOL	SD1620D	SD1630D	SD1640D	SD1650D	SD1660D	SD1680D	SD16100D	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		Vrms	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at TA=90°C		ю	16							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150						Amps	
Maximum Instantaneous Forward Voltage at 8.0A DC		Vf	0.65			0.75		0.6	0.85	
Maximum DC Reverse Current at	@TA = 25°C		2.0							-mAmps
Rated DC Blocking Voltage	@TA = 100°C	- IR	100							
Typical Thermal Resistance (Note1)		RθJA	80							°C/W
Typical Junction Capacitance (Note 2)		CJ	700							pF
Storage Operating Temperature Range		TJ, TSTG	-55 to + 150							٥C

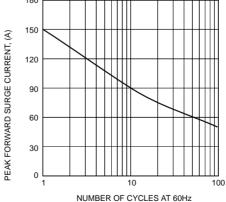
Note : 1. Mounted on PC Board with 14mm²(0.013mm thick) copper pad areas.

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

CURRENT - 16 Amperes

RATING AND CHARACTERISTIC CURVES (SD1620D THRU SD16100D)





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