DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SM5400 THRU SM5408

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current
- * Low profile package
- * Fast switching

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rated flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.12 gram 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	SM5400	SM5401	SM5402	SM5404	SM5406	SM5407	SM5408	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A = 75^{\circ}C$		lo	3.0							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 3.0A DC		VF		1.1						Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C	lr	5.0							μAmps
	@ TA=100°C		100							
Typical Junction Capacitance (Note 1)		CJ	15							pF
Typical Thermal Resistance (Note 2)		RθJA	60							°C/W
Operating and Storage Temperature Range		Tj,Tstg	-55 to +150							°C

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

Note 2: Typical thermal resistance from junction ambient.

RATING AND CHARACTERISTIC CURVES (SM5400 THRU SM5408)



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