

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

M13 THRU M20

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 1300 to 2000 Volts CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

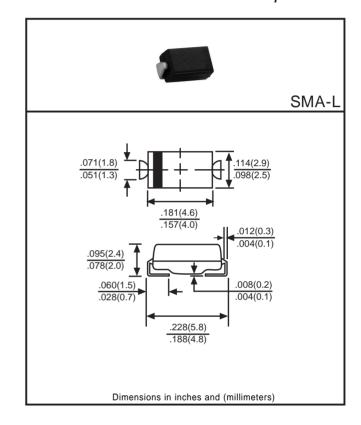
* Polarity: Color band denotes cathode end

* Mounting position: Any

* Weight: 0.064 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%.



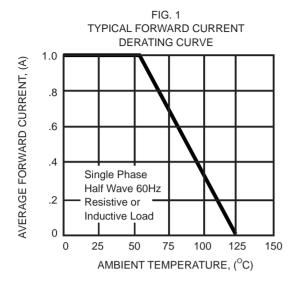
		SYMBOL	M13	M16	M20	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	1300	1600	2000	Volts
Maximum RMS Voltage		VRMS	910	1120	1400	Volts
Maximum DC Blocking Voltage		VDC	1300	1600	2000	Volts
Maximum Average Forward Rectified Current at T _A = 55°C		lo	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		lғsм	30		20	Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1		2.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C @ T _A =100°C	lr	5.0 200			μAmps
Typical Junction Capacitance (Note 1)		Cı	15			pF
Typical Thermal Resistance (Note 2)		R _θ ја	30			°C/W
Operating Temperature Range		TJ	-55 to +125			°C
Storage Temperature Range		Тѕтс	-55 to +150			°C

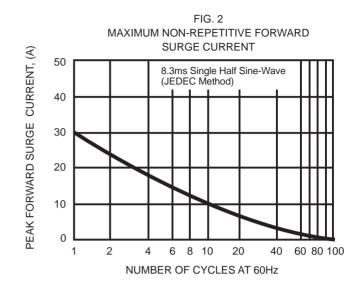
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

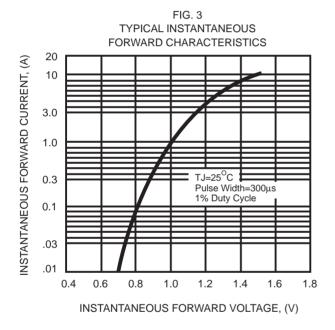
Note 2: Typical thermal resistance from junction to ambient.

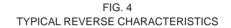
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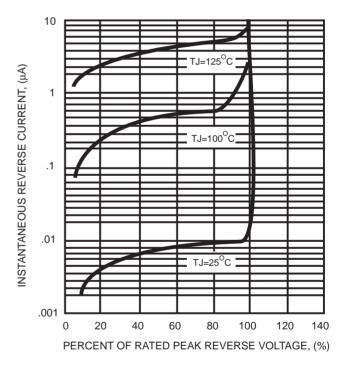
RATING AND CHARACTERISTIC CURVES (M13 THRU M20)

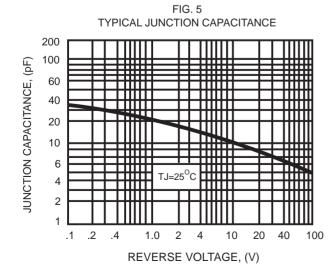












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