

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

M1 THRU M7

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts

CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Low profile package
- * Low power loss, high efficiency
- * High surge capability

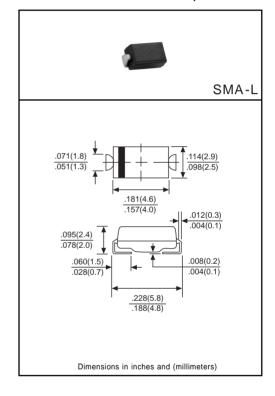
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- *Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



		SYMBOL	M1	M2	M3	M4	M5	M6	M7	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 TA = 55°C		lo	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30						Amps	
Maximum Forward Voltage at 1.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at	@Ta = 25°C	lR -	5.0							uAmps
Rated DC Blocking Voltage @TA = 125°C		IK IK	50							uAllips
Maximum Reverse Recovery Time (Note 3)		trr	2.5							uSec
Typical Thermal Resistance (Note 2)		RθJL	30							°C/W
Typical Junction Capacitance (Note 1)		Cı	15							pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175							°C

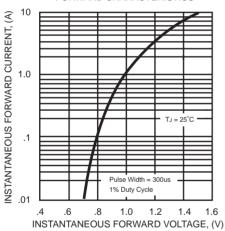
NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

- 2. Thermal Resistance (Junction to Ambient), .24in² (6.0mm²) copper pads to each terminal.
- 3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

RATING AND CHARACTERISTIC CURVES (M1 THRU M7)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE AVERAGE FORWARD CURRENT, (A) 1.0 .8 .6 .4 Single Phase Half Wave 60Hz .2 Resistive or Inductive Load 0 25 50 100 125 150 175 75 AMBIENT TEMPERATURE, (°C)

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



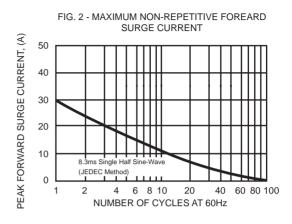
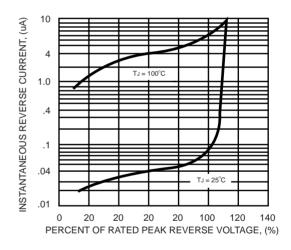
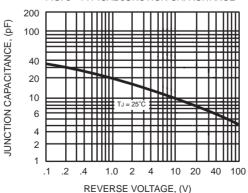


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS









X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by JGD SEMICONDUCTORS manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP