# DC COMPONENTS CO., LTD.

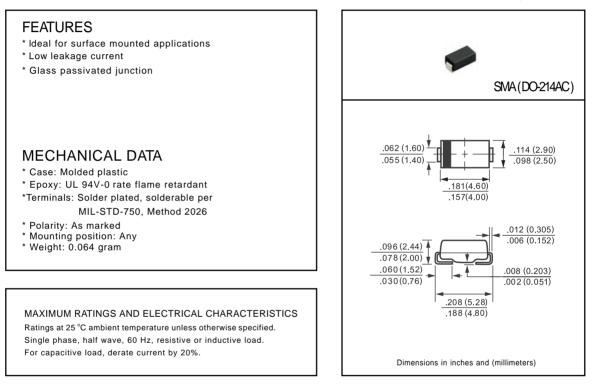
### **RECTIFIER SPECIALISTS**

GS1A/M1 THRU GS1M/M7

## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON RECTIFIER

#### VOLTAGE RANGE 50 to 1000 Volts

#### CURRENT 1.0 Ampere



			GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	
		SYMBOL	M1	M2	M3	M4	M5	M6	M7	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	00 800 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 = 75°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	- IR				5.0	.0			uAmps
Rated DC Blocking Voltage	@TA = 125°C	IK	50							uAmps
Maximum Reverse Recovery Time (Note 3)		trr	2.5						uSec	
Typical Thermal Resistance (Note 2)		RθJL	30						°C/W	
Typical Junction Capacitance (Note 1)		CJ	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), .24in<sup>2</sup> (6.0mm<sup>2</sup>) copper pads to each terminal.

3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

1	GS1A		GS1M	١
		THRU		
l	M1		M7	1

