DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU GS1M

GS1A

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

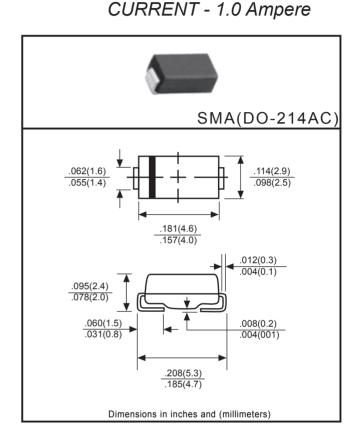
- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current
- * Low power loss, high efficiency
- * High surge capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 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^oC ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



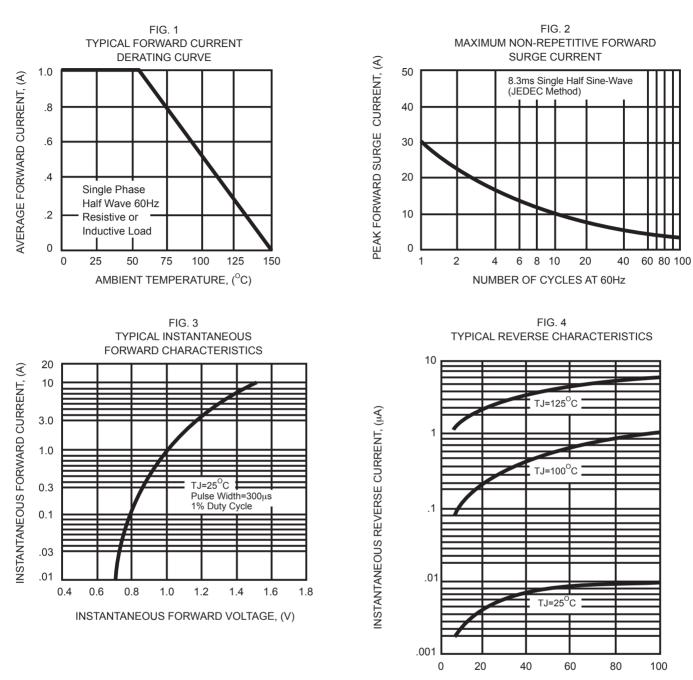
	SYMBOL	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.1					Volts		
Maximum DC Reverse Current at Rated @TJ = 25°C	IR	5.0							μAmps
DC Blocking Voltage @TJ = 125°C		50							
Typical Junction Capacitance (Note 1)	CJ	15						рF	
Typical Thermal Resistance (Note 2)	Reja	30						°C/W	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

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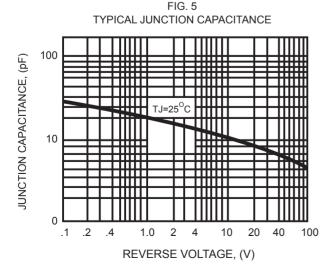
Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts. Note 2 :Typical thermal resistsnce from junction to ambient.

REV-4.0CT.2020

RATING AND CHARACTERISTIC CURVES (GS1A THRU GS1M)



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)



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