

# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

RGL1A **THRU** RGL1M

## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER VOLATGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

#### **FEATURES**

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

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \*Terminals: Solder plated solderable per

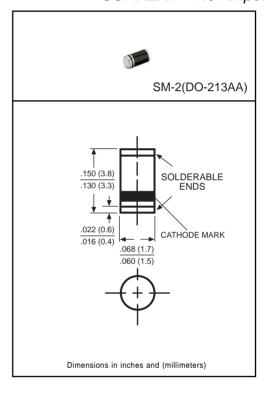
MIL-STD-202E, Method 208 guaranteed

- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.036 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

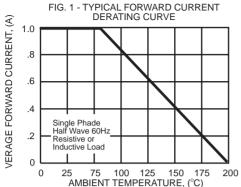


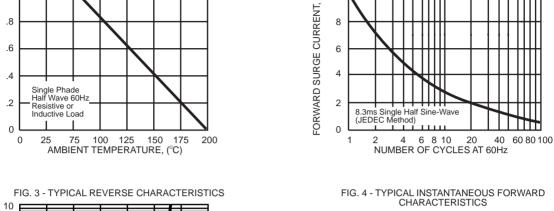
		SYMBOL	RGL1A	RGL1B	RGL1D	RGL1G	RGL1J	RGL1K	RGL1M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 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	10							Amps
Maximum Forward Voltage at 0.5A DC		VF	1.3							Volts
Maximum DC Reverse Current at	@Ta = 25°C	l <sub>R</sub>			5.0					μAmps
Rated DC Blocking Voltage	@Ta = 125°C	IK	100							μΑπιρδ
Maximum Reverse Recovery Time (Note 3)		trr	150		250	500		nSec		
Maximum Thermal Resistance (Note 2)		RθJ	70							°C/W
Typical Junction Capacitance (Note 1)		С	4.0							pF
Operating and Storage Temperature Range		TJ, TSTG	-50 to +150							°C

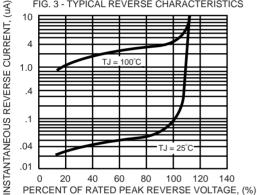
- NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC
  - 2. Thermal resistance (Junction to Ambient) .24in² (6.0mm²) copper pads to each terminal.
  - 3. Test Conditions: IF = 0.5A, IR=1.0A, IRR=0.25A

## RATING AND CHARACTERISTIC CURVES (RGL1A THRU RGL1M)

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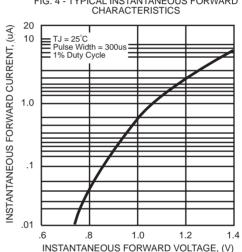
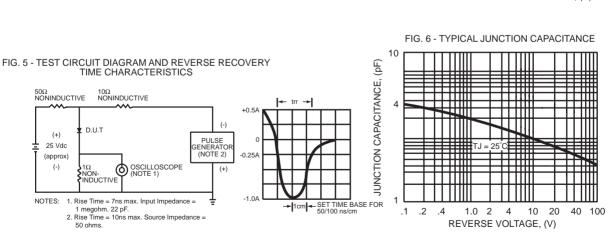


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





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