

RGL1A THRU RGL1M

SURFACE MOUNT FAST SILICON RECTIFIERS

Reverse Voltage - 50 to 1000 V

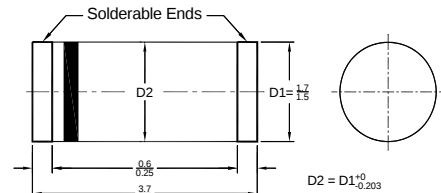
Forward Current - 1 A

Features

- Plastic material has UL classification 94V-0
- For surface mounted application

Mechanical Data

- Case: MiniMELF(DO-213AA), molded plastic body
- Terminals: Plated terminals solderable per MIL-STD-750
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MiniMELF (DO-213AA) Plastic Package

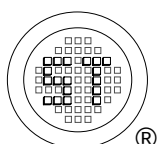
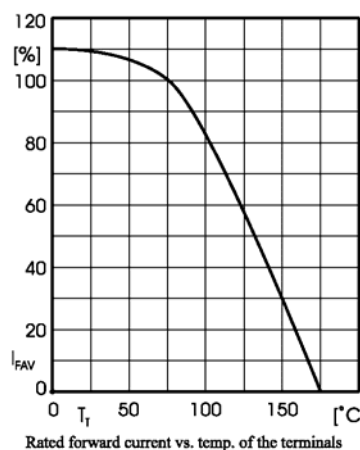
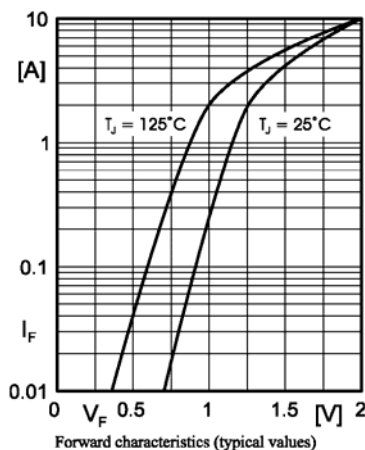
Maximum Ratings and Electrical characteristics

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%.

Parameter	Symbols	RGL1A	RGL1B	RGL1D	RGL1G	RGL1J	RGL1K	RGL1M	Units
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Surge Peak Reverse Voltage	V _{RSM}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _T = 75 °C	I _{F(AV)}	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	20							A
Maximum Forward Voltage at 1 A	V _F	1.3							V
Maximum Reverse Current T _j = 25 °C at V _R = V _{RRM} T _j = 125 °C	I _R	5 50							µA
Maximum Reverse Recovery Time ¹⁾	t _{rr}	150				250	500		ns
Maximum Thermal Resistance Junction to Ambient ²⁾	R _{θJA}	150							K/W
Maximum Thermal Resistance Junction to Terminals	R _{θJT}	60							K/W
Operating and Storage Temperature Range	T _j , T _{stg}	- 50 to + 175							°C

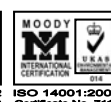
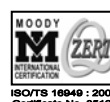
¹⁾ Reverse recovery conditions: $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$

²⁾ Mounted on P.C. board with 25 mm² copper pads at each terminal



SEMTECH ELECTRONICS LTD.

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