## **RGL1A THRU RGL1M**

### **SURFACE MOUNT FAST SILICON RECTIFIERS**

Reverse Voltage - 50 to 1000 V

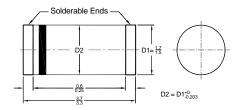
Forward Current - 1 A

#### **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

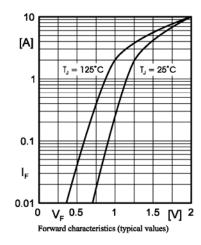
### **Maximum Ratings and Electrical characteristics**

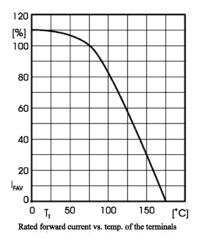
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 <sub>T</sub> = 75 °C	I <sub>F(AV)</sub>	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	20						А	
Maximum Forward Voltage at 1 A	$V_{F}$	1.3						V	
	I <sub>R</sub>	5 50							μΑ
Maximum Reverse Recovery Time 1)	t <sub>rr</sub>	150			250	500		ns	
Maximum Thermal Resistance Junction to Ambient 2)	$R_{\theta JA}$	150							K/W
Maximum Thermal Resistance Junction to Terminals	$R_{\theta JT}$	60							K/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	- 50 to + 175							οС

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

<sup>&</sup>lt;sup>2)</sup> Mounted on P.C. board with 25 mm<sup>2</sup> copper pads at each terminal







# SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)











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