

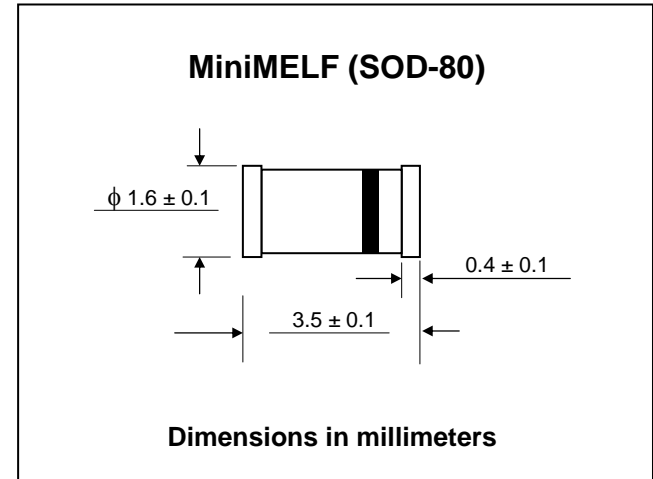
RGL1A - RGL1M

SURFACE MOUNT FAST RECOVERY RECTIFIERS

PRV : 50 - 1000 Volts
Io : 1 Ampere

FEATURES :

- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **Pb / RoHS Free**



MECHANICAL DATA :

- * Plastic Case Mini MELF/ SOD-80
- * Terminals: plated terminals solderable per MIL-STD-750
- * Polarity : Color band denotes cathode end except Bipolar.
- * Mounting position : Any
- * Weight : 0.067 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	RGL1A	RGL1B	RGL1D	RGL1G	RGL1J	RGL1K	RGL1M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current $T_A = 75\text{ °C}$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load	I_{FSM}	25							A
Maximum Forward Voltage at $I_F = 1\text{ A}$ $T_J = 25\text{ °C}$	V_F	1.3							V
Maximum DC Reverse Current $T_J = 25\text{ °C}$	I_R	5.0							μA
at rated DC Blocking Voltage $T_J = 125\text{ °C}$	$I_{R(H)}$	50							μA
Typical Revers Recovery Time (Note 1)	T_{rr}	150				250	500		ns
Operating Junction and Storage Temperature Range	T_J, T_{STG}	- 50 to + 175							$^{\circ}\text{C}$

Notes :

(1) Reverse Recovery Test Conditions : $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$.

RATING AND CHARACTERISTIC CURVES (RGL1A - RGL1M)

FIG.1 - RATED FORWARD CURRENT VS. AMBIENT TEMPERATURE

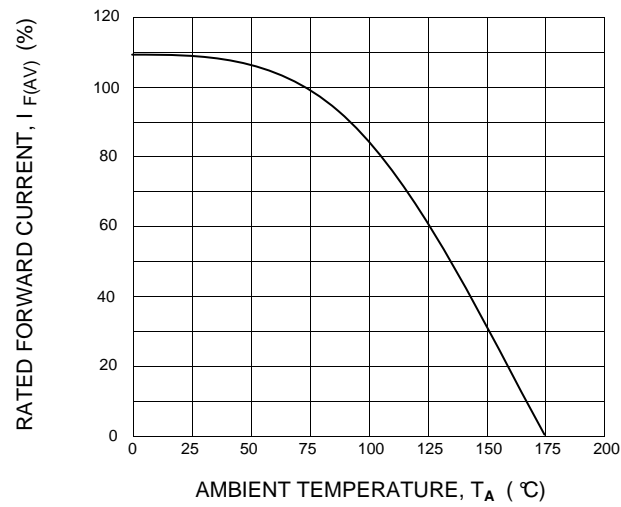


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

