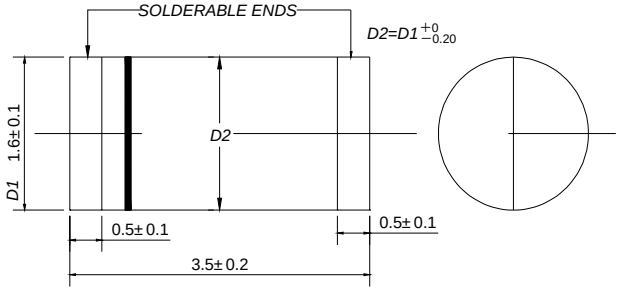
RGL34A-RGL34M

Surface Mount Rectifiers

VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 0.5 A

DO - 213AA



Dimensions in millimeters

Features

- ◇ Plastic package has underwriters laboratories flammability classification 94V-0
- ◇ Glass passivated chip junction
- ◇ For surface mount applications
- ◇ High temperature metallurgically bonded construction
- ◇ Cavity-free glass passivated junction
- ◇ High temperature soldering guaranteed:450 °C/5 seconds at terminals.Complete device sub-mersible temperature of 265℃ for 10 seconds in solder bath

Mechanical Data

- ◇ Case: JEDEC DO-213AA,molded plastic
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.0014 ounces, 0.036 grams
- ◇ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate current by 20%.

		RGL 34A	RGL 34B	RGL 34D	RGL 34G	RGL 34J	RGL 34K	RGL 34M	UNITS
Maximum recurrent 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 rectified current T_T=55℃	$I_{(AV)}$	0.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	10							A
Maximum instantaneous forward voltage @0.5A	V_F	1.3							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=125℃	I_R	5.0 50							μA
Maximum reverse recovery time (Note 1)	t_{rr}	150				250	500		ns
Typical junction capacitance (Note 2)	C_j	4.0							pF
Typical thermal resistance (Note 3)	$R_{\theta JA}$	150							℃/W
Operating junction temperature range	T_j	- 55 ---- +175							℃
Storage temperature range	T_{STG}	- 55 ---- +175							℃

NOTE: 1. Measured with I_F=0.5A,I_R=1.0A,I_{rr}=0.25A

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient, 0.24×0.24"(6.0×6.0mm) copper pads to each terminal.

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Ratings AND Charactieristic Curves

FIG.1 – FORWARD CURRENT DERATING CURVE

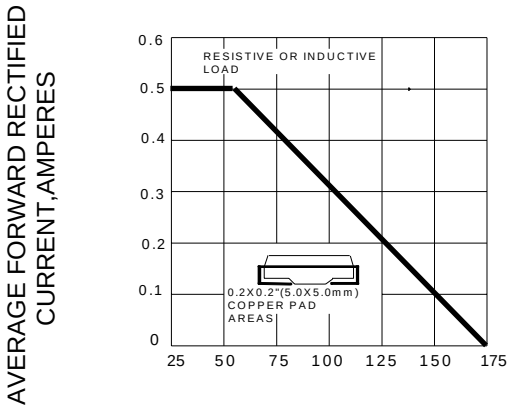


FIG.2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

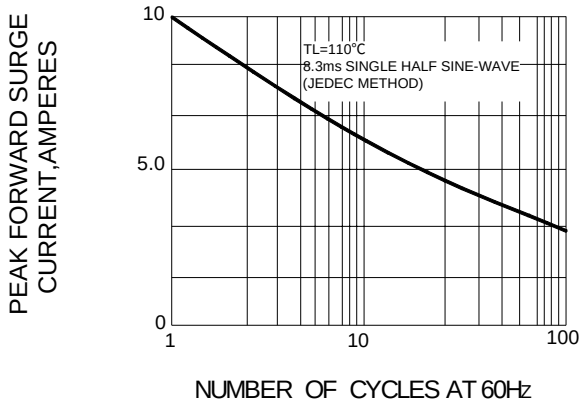


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

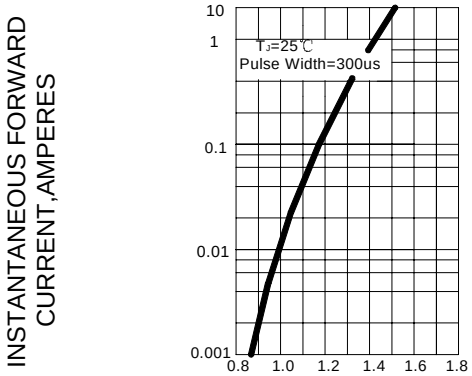


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

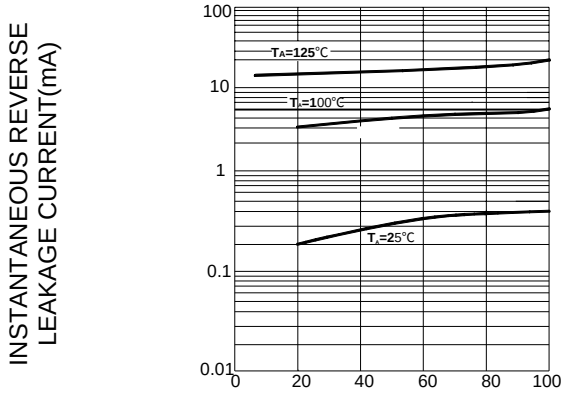
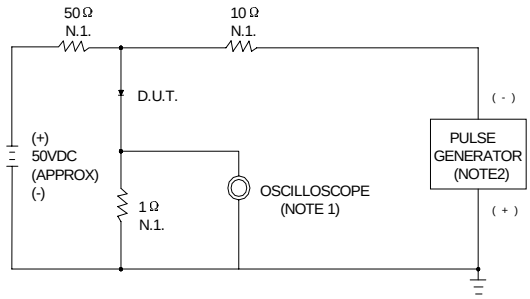
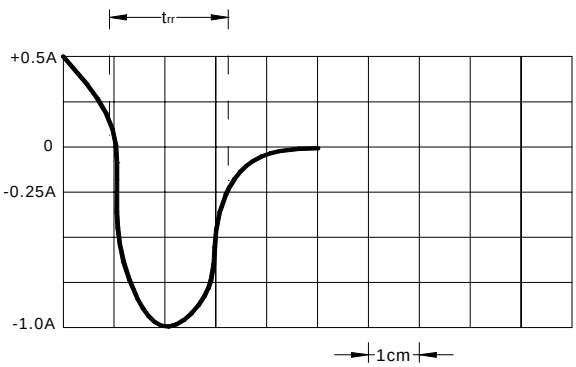


FIG.5 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES:1.RISE TIME=7ns MAX. INPUT IMPEDANCE=1MΩ.22pF
2.RISE TIME=10ns MAX. SOURCE IMPEDANCE=50Ω



SET TIME BASE FOR 75/150 ns /cm