RGL34A THRU RGL34J

SURFACE MOUNT GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

Reverse Voltage - 50 to 600 Volts

Forward Current - 0.5 Ampere

FEATURES

- Plastic package has Underwriters Laboratory ٠ Flammability Classification 94V-0
- For surface mount applications
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- Fast switching for high efficiency
- High temperature soldering guaranteed: 450°C/5 seconds at terminals. Complete device submersible temperature of 260°C for 10 seconds in solder bath

MECHANICAL DATA

Case: JEDEC DO-213AA molded plastic over glass body Terminals: Plated terminals, solderable per MIL-STD-750, Method 2026

Polarity: Two bands indicate cathode end - 1st band denotes device type and 2nd band denotes repetitive peak reverse voltage rating

Mounting Position: Any

Weight: 0.0014 ounce, 0.036 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°°C ambient temperature unless otherwise specified.							
Fast switching device: 1st band is Red	SYMBOLS	RGL34A	RGL34B	RGL34D	RGL34G	RGL34J	UNITS
Polarity color bands (2nd Band)		Gray	Red	Orange	Yellow	Green	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	Volts
Maximum average forward rectified current at TT=55°C	l(AV)	0.5					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	10.0					Amps
Maximum instantaneous forward voltage at 0.5A	VF	1.3					Volts
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=125^{\circ}C$	IR	5.0 50.0					μA
Maximum full load reverse current, full cycle average TA=55°C	IR(AV)	30.0					μA
Maximum reverse recovery time (NOTE 1)	trr	150 250				250	ns
Typical junction capacitance (NOTE 2)	CJ	4.0					рF
Maximum thermal resistance (NOTE 3) (NOTE 4)	R⊕ja R⊕jt	150.0 70.0					°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175					°C

NOTES:

(1) Reverse recovery test conditions IF=0.5A, IR=1.0A, Irr=0.25A

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

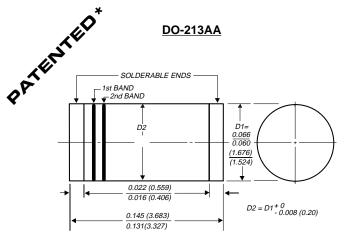
(3) Thermal resistance from junction to ambient, 0.2 x 0.2" (5.0 x 5.0mm) copper pads to each terminal

(4) Thermal resistance from junction to terminal, 0.2 x 0.2" (5.0 x 5.0mm) copper pads to each terminal





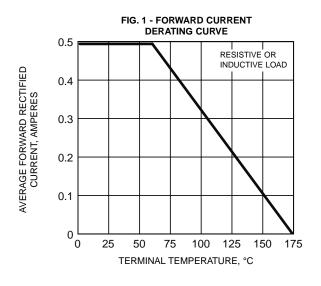
Deting at 05000 and instant

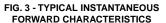


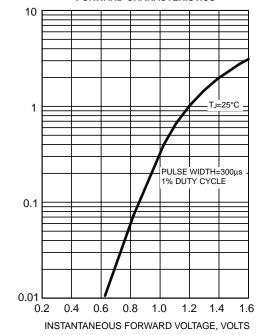
1st band denotes type and polarity 2cnd band denotes voltage type

Dimensions in inches and (millimeters) \star Glass-plastic encapsulation technique is covered by Patent No.3,996,602 and brazed-lead assembly by Patent No.3,930,306

RATINGS AND CHARACTERISTIC CURVES RGL34A THRU RGL34J



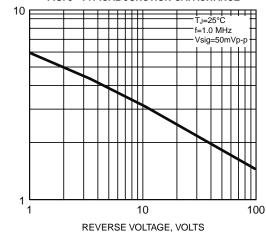




INSTANTANEOUS FORWARD CURRENT, AMPERES

JUNCTION CAPACITANCE, pF

FIG. 5 - TYPICAL JUNCTION CAPACITANCE



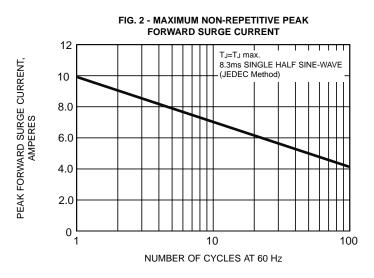


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

