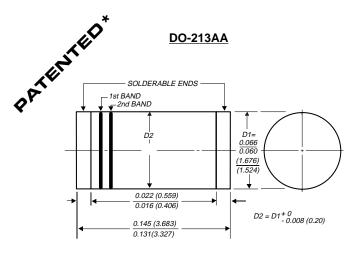
# **RGL34A THRU RGL34J**

## SURFACE MOUNT GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

Reverse Voltage - 50 to 600 Volts

Forward Current - 0.5 Ampere



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

Dimensions in inches and (millimeters)

\* Glass-plastic encapsulation technique is covered by
Patent No.3,996,602 and brazed-lead assembly by Patent No.3,930,306



### **FEATURES**

- Plastic package has Underwriters Laboratory 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	V <sub>RMS</sub>	35	70	140	280	420	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	Volts
Maximum average forward rectified current at T <sub>T</sub> =55°C	I(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 TA=25°C at rated DC blocking voltage TA=125°C	lR	5.0 50.0					μА
Maximum full load reverse current, full cycle average T <sub>A</sub> =55°C	lr(AV)	30.0					μΑ
Maximum reverse recovery time (NOTE 1)	t <sub>rr</sub>	150 250				250	ns
Typical junction capacitance (NOTE 2)	CJ	4.0					pF
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



## **RATINGS AND CHARACTERISTIC CURVES RGL34A THRU RGL34J**

