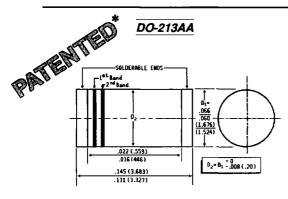
BYM05-50 THRU BYM05-600 GL34A THRU GL34J

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Voltage - 50 to 600 Volts Current - 0.5 Amperes

FEATURES



Dimensions in inches and (millimeters)

* Glass-plastic encapsulation technique is covered by Patent No. 3,996,602 of 1976; brazed -lead assembly to Patent No. 3,930,306 of 1976



- High temperature metallurgically bonded
- · Glass passivated junction
- Plasticpackage has Underwriters Laboratory Flammability Classification 94V-0
- Capable of meeting environmental standards of MIL-S-19500
- 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: Molded plastic over glass

Terminals: Plated Terminals, solderable per

MIL-STD-750, Method 2026

Polarity: Two bands indicate cathode

1st band denotes device type 2nd band denotes voltage type **Mounting Position:** Any **Handling Precautions:** None

Weight: 0.036 gram, 0.0014 ounce



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	BYM05						
	SYMBOLS	-50	-100	-200	-400	-600	UNITS
Standard recovery time device: 1st band is white		GL34A	GL34B	GL34D	GL34G	GL34J	
Maximum Recurrent 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 T _T =75°C	I(AV)	0.5					Amps
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	1.2 1.3					Volts
Maximum DC Reverse Current T _A ≈25°C tat Rated DC Blocking Voltage T _A ≈125°C	l _R	5.0 50.0					μА
Maximum Full Load Reverse Current, Full Cycle Average at T _A =75°C	I _{R(AV)}	20					μА
Typical Junction Capacitance (NOTE 1)	CJ	7.0					pF
Maximum Thermal Resistance RthJL (NOTE 2) RthJA (NOTE 3)	Reja Reja	70.0 150.0					°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}		-65 to +175				
Polarity Color Bands (2 nd Band)		Gray	Red	Orange	Yellow	Green	

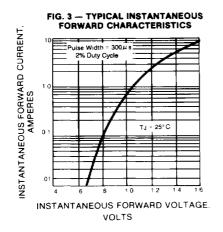
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

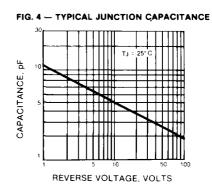
- Thermal resistance junction to terminal, 5.0mm² copper pads to each terminal.
- 3. Thermal resistance junction to ambient, 5.0mm² copper pads to each terminal.

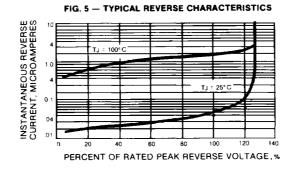
PEAK FORWARD SURGE CURRENT

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FIG. 2 — MAXIMUM NON-REPETITIVE







@ General Instrument