

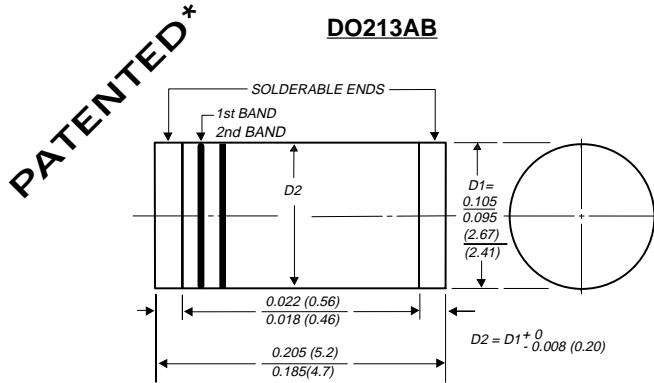
BYM10-50 THRU BYM10-1000

GL41A THRU GL41Y

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1600 Volts

Forward Current - 1.0 Ampere



1st band denotes type and positive end (cathode)
2nd band denotes voltage type

Dimensions in inches and (millimeters)

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

SUPERRECTIFIER

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ For surface mount applications
- ◆ High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- ◆ High temperature soldering guaranteed:
450°C/5 seconds at terminals. Complete device submersible temperature of 265°C for 10 seconds in solder bath



MECHANICAL DATA

Case: JEDEC DO-213AB 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: 0.0046 ounce, 0.116 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

		BYM10				BYM10					
	SYMBOLS	-50	-100	-200	-400	-600	-800	-1000			UNITS
Standard recovery device: 1st band is white		GL41A	GL41B	GL41D	GL41G	GL41J	GL41K	GL41M	GL41T	GL41Y	
Polarity color bands (2nd Band)		Gray	Red	Orange	Yellow	Green	Blue	Violet	White	Brown	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	1300	1600	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	910	1120	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	1300	1600	Volts
Maximum average forward rectified current (SEE FIG. 1)	l(AV)	1.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lFSM	30.0									Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1					1.2				Volts
Maximum DC reverse current at rated DC blocking voltage	IR	10.0 50.0									μA
Maximum full load reverse current full cycle average at TA=75°C	IR(AV)	30.0									μA
Typical junction capacitance (NOTE 1)	CJ	8.0									pF
Typical thermal resistance (NOTE 2) (NOTE 3)	RθJA RθJT	75.0 30.0									°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175									°C

NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}
- (2) Thermal resistance from junction to ambient, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminal
- (3) Thermal resistance from junction to terminal, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminal

 **GENERAL
SEMICONDUCTOR**

RATINGS AND CHARACTERISTIC CURVES BYM10-50 THRU BYM10-600 / GL41A THRU GL41Y

FIG. 1 - FORWARD CURRENT DERATING CURVE

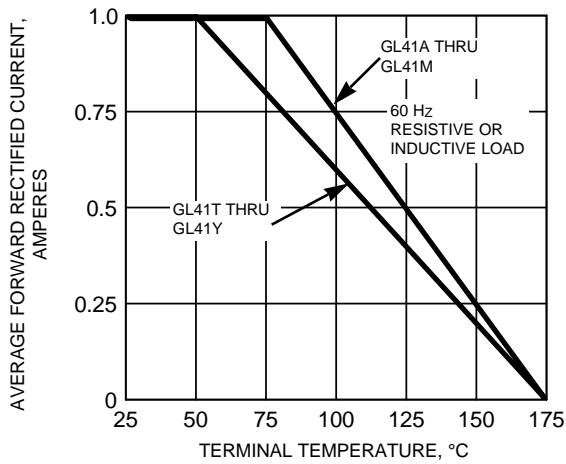


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

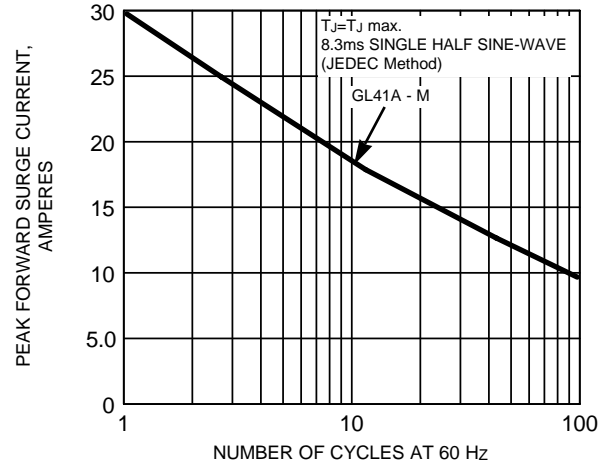


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

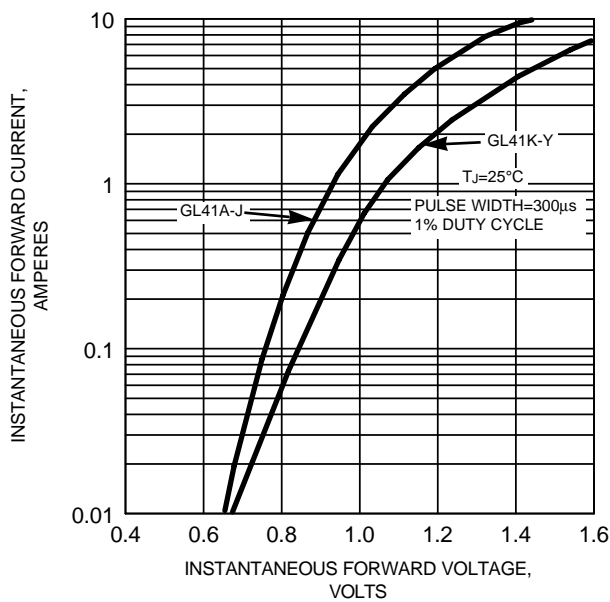


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

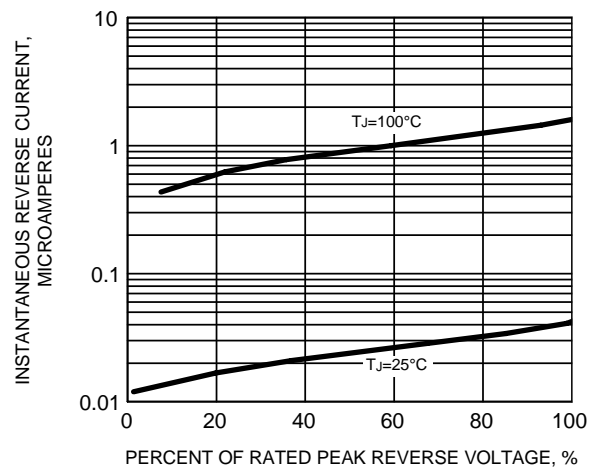


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

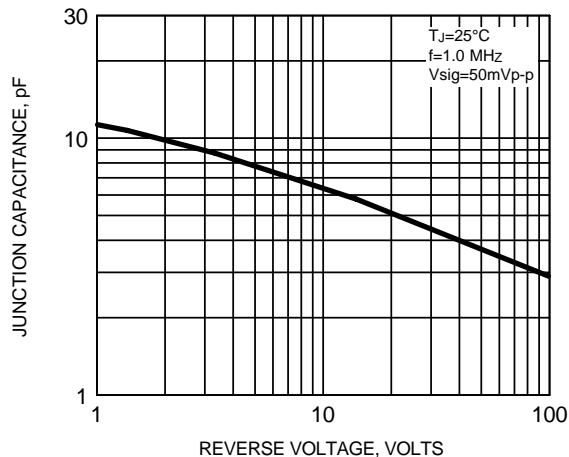


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

