


SURFACE MOUNT GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER
Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

Patent No. 3.996.602 and brazed-lead assembly to Patent No. 3.930.306



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
 - ◆ 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-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.

[illegible]

NOTES:

- (1) Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient, $0.24 \times 0.24"$ (6.0 x 6.0mm) copper pads to each terminal
- (4) Thermal resistance from junction to terminal, $0.24 \times 0.24"$ (6.0 x 6.0mm) copper pads to each terminal

RATINGS AND CHARACTERISTIC CURVES BYM11-50 THRU BYM11-1000 / RGL41A THRU RGL41M

FIG. 1 - FORWARD CURRENT DERATING CURVE

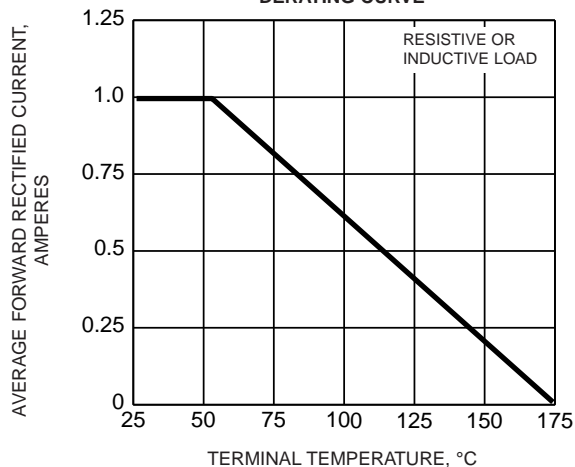


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

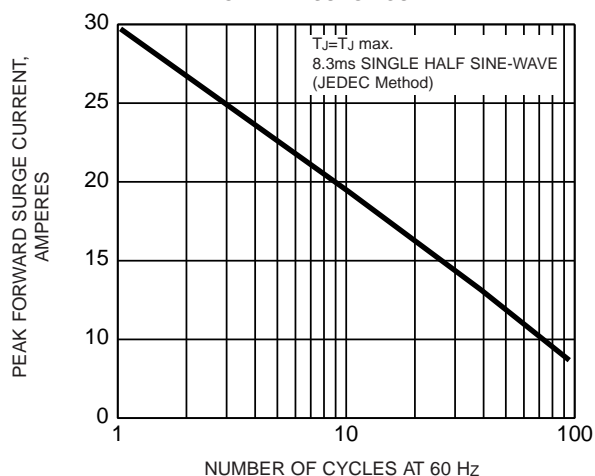


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

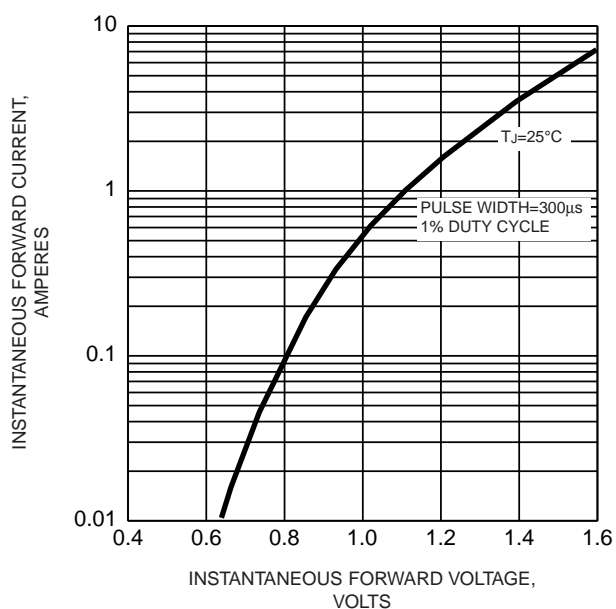


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

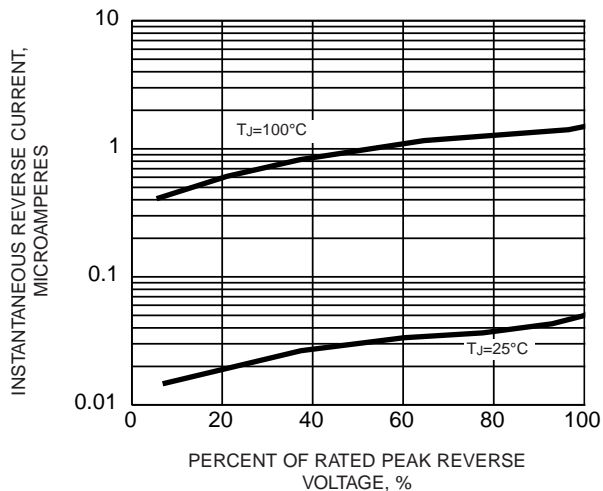


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

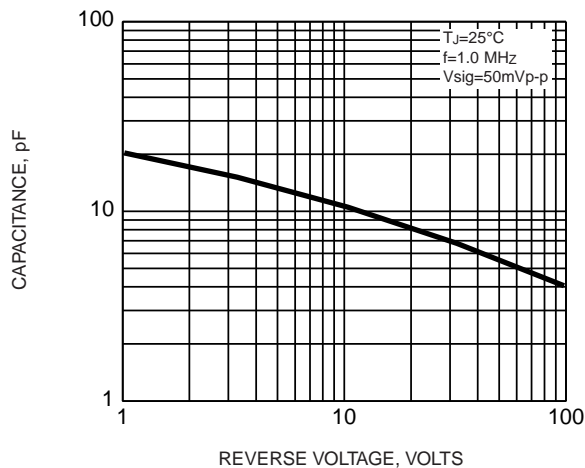


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

