



SURFACE MOUNT GLASS PASSIVATED SUPER FAST SWITCHING RECTIFIER

FEATURES

- . Ideal for surface mounted applications
- . Easy pick and place
- . Low leakage current
- . Glass passivated chips
- . Fast switching
- . Metallurgically bonded construction
- . High temperature soldering guaranteed:
250/10 seconds/.375" (9.5mm) lead lengths

MECHANICAL DATA

Case: Molded plastic use UL94V-0 recognized
flame retardant epoxy

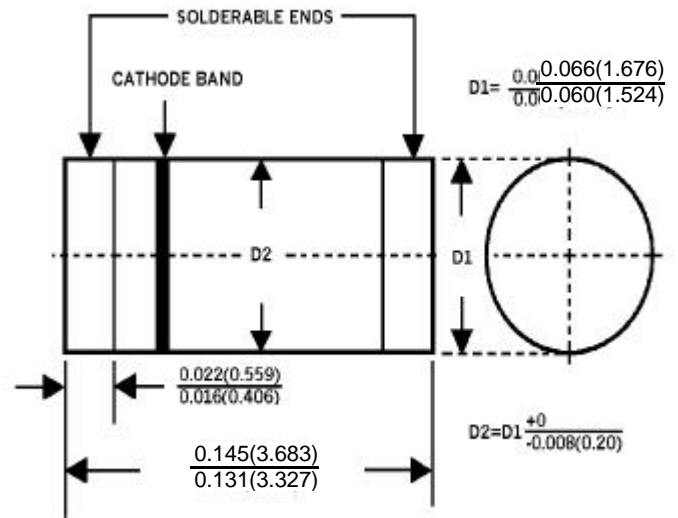
Terminals: Plated terminals, solderable per
MIL-STD-202, method 208

Polarity: Red color band on body denotes cathode

Mounting position: Any

Weight: 0.036gram

DO-213AA/MINI MELF



Dimension in inches (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 Ambient temp. Unless otherwise specified.

Single phase, half sine wave, 60HZ, resistive or inductive load.

For capacitive load, derate current by 20%

	SYMBOL	HGL 34A	HGL 34B	HGL 34D	HGL 34G	HGL 34J	HGL 34K	HGL 34M	UNITS
Maximum Current Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current $T_T=60$	I(AV)	0.5							Amps
Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	IFSM	10							Amps
Maximum Instantaneous Forward Voltage Drop at 0.5A DC	VF	1.25			1.35		1.5		Volts
Maximum DC Reverse Current $T_A=25$ at Rated DC Blocking Voltage $T_A=125$	IR	5.0 100.0							μ A
Maximum Reverse Recovery Time	Trr	50			75				nS
Typical Junction Capacitance	CJ	15			12				pF
Operating Junction Temperature Range	TJ	-65 to +150							
Storage Temperature Range	TSTG	-65 to +150							

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

RATING AND CHARACTERISTIC CURVES HGL34A THRU HGL34M

FIG. 1 – MAXIMUM FORWARD CURRENT DERATING CURVE

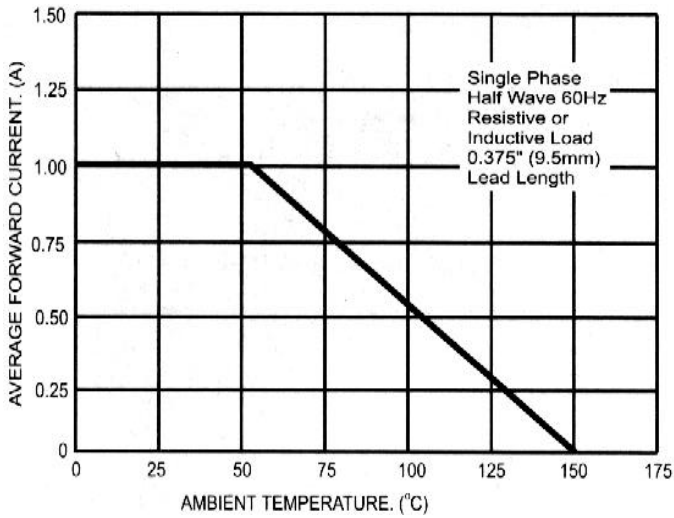


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

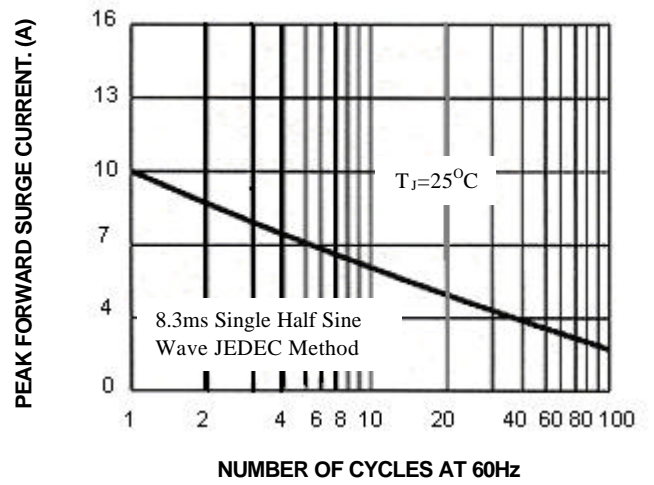


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

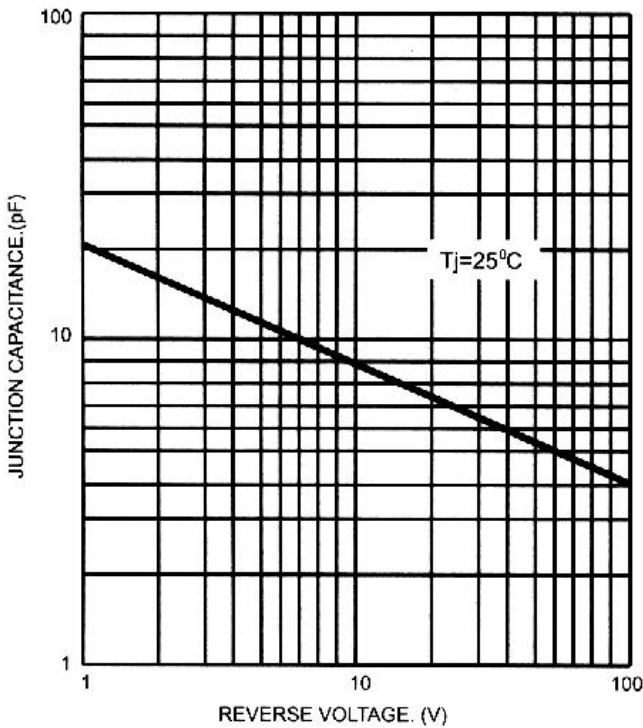


FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

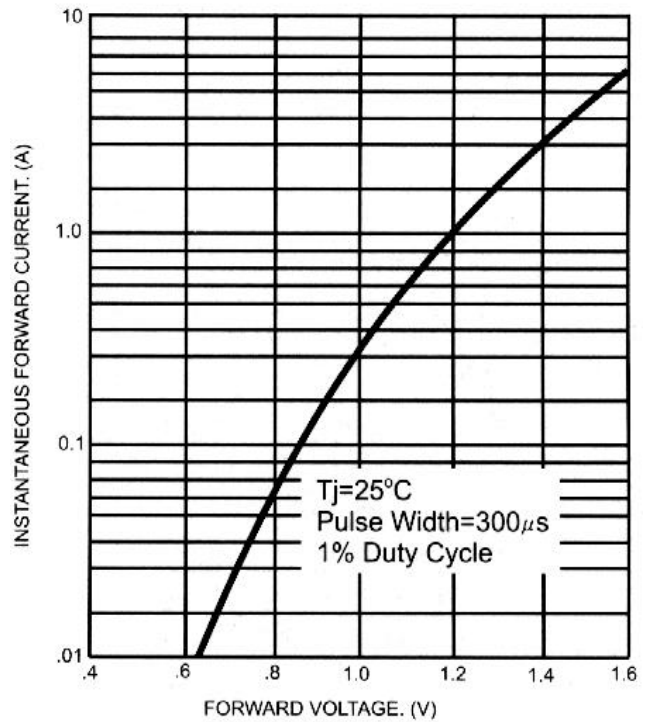


FIG. 5 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

