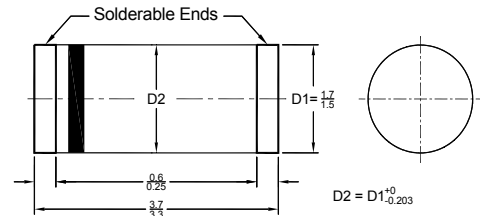


SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

Features

- Low power loss, high efficient
- High surge current capability
- Low forward voltage drop
- For use in low voltage, highfrequency inverters, Free wheeling application
- Guarding for over voltage protection

GL1A-GL1M



MiniMELF (DO-213AA) Plastic Package
Dimensions in millimeters

Mechanical Data

Case : Molded plastic use UL94V-0 recognized
flame retardant epoxy
Terminals : Plated terminals
Polarity : Color band on body denotes cathode
Mounting position : Any
Weight : 0.0317gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temp. unless otherwise specified
Single phase, half sine wave, 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

	SYMBOL	GL1A	GL1B	GL1D	GL1G	GL1J	GL1K	GL1M	UNITS
Maximum Current Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I_{AV}	1.0							Amps
Peak Forward Surge Current Single Sine-Wave on Rated Load (JEDEC Method)	I_{FSM}	30							Amps
Maximum Instantaneous Forward Voltage Drop at 1.0A DC	V_F	1.1							Volts
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=100^{\circ}C$	I_R	5.0 250							mA
Typical Junction Capacitance	C_J	15							pF
Typical Thermal Resistance	$R_{\theta JC}$	125							$^{\circ}C / W$
Operating Junction and Storage Temperature Range	T_J T_{STG}	-65 to +150							$^{\circ}C$

GL1A-GL1M

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

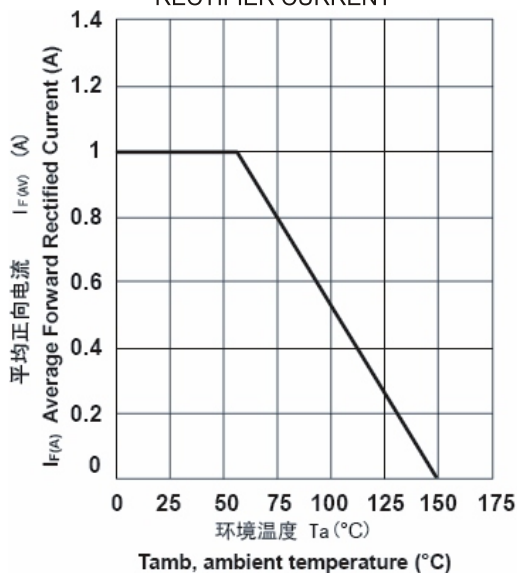


FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

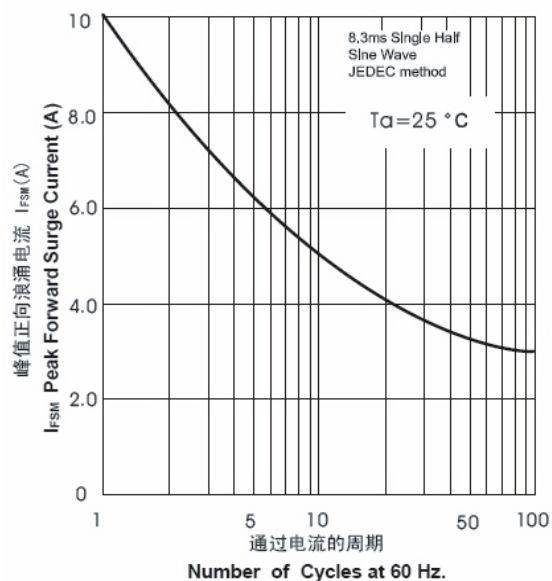


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

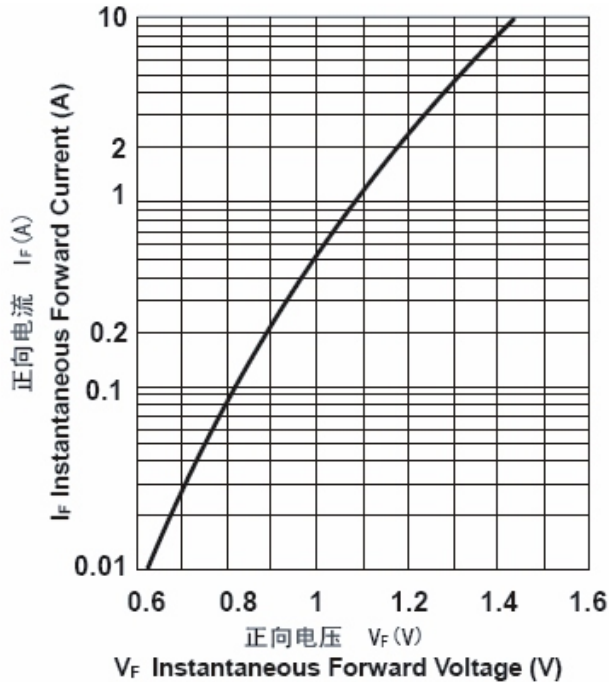


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

