

SURFACE MOUNT GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 50 to 1000 V

Forward Current - 1.0 A

FEATURES

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

MECHANICAL DATA

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



Maximum Ratings And Electrical Characteristics

Rating 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%

Parameter	Symbols	GL1A	GL1B	GL1D	GL1G	GL1J	GL1K	GL1M	Units
Maximum Current Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_L=75^{\circ}C$	$I_{(AV)}$	1.0							A
Peak Forward Surge current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	10							A
Maximum Instantaneous Forward Voltage at 1.0 A	V_F	1.1							V
Maximum DC Reverse Current at rated DC Blocking Voltage $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I_R	5.0 250							μA
Typical junction capacitance (Note1)	C_J	15							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	125							$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-65 ~ +150							$^{\circ}C$
Storage Temperature Range	T_{stg}	-65 ~ +150							$^{\circ}C$

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
2. Thermal Resistance from Junction to Ambient

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

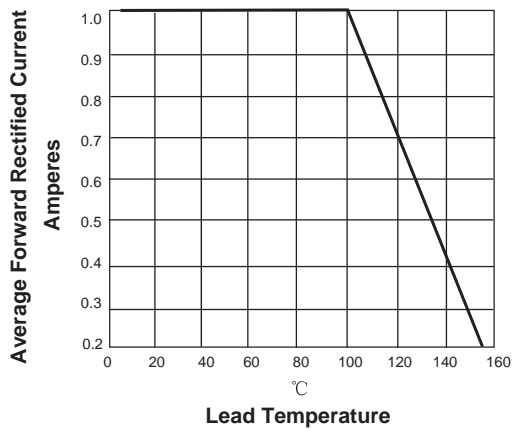


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

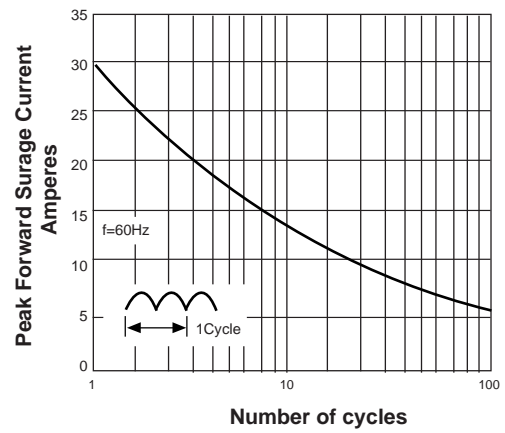


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

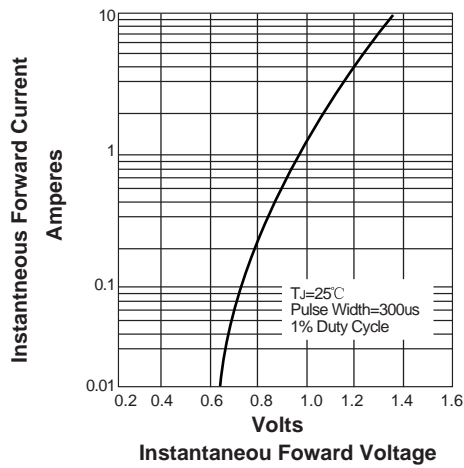
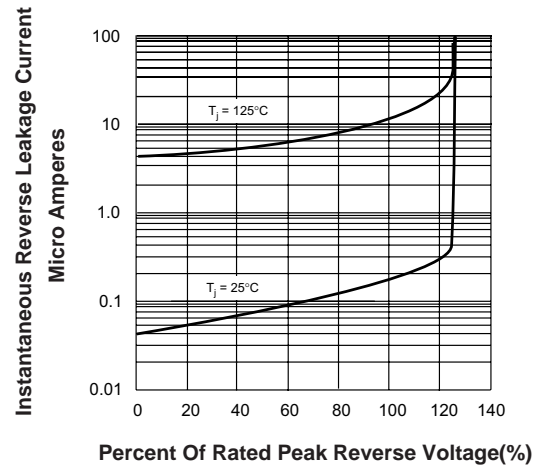


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

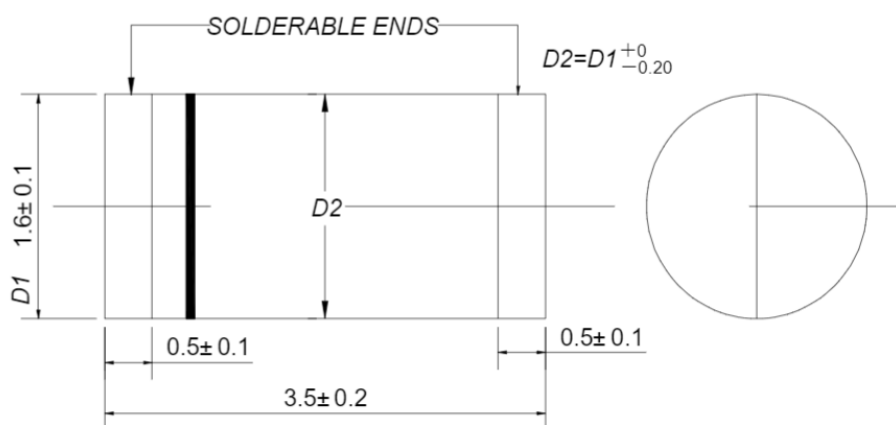


Ordering information

Package	Packing Description	Packing Quantity
DO-213AA(Mini MELF)	Tape/Reel, 7" reel	2500PCS/Reel 100000PCS/Carton

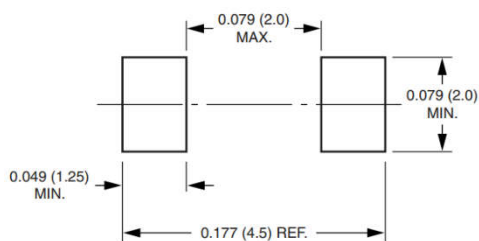
Package Dimensions

DO-213AA(Mini MELF)



Dimensions in millimeters

The recommended mounting pad size



Disclaimer

The information presented in this document is for reference only. Guangdong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.