TOP ONE SEMI CONDUCTOR

SURFACE MOUNT RECTIFIER

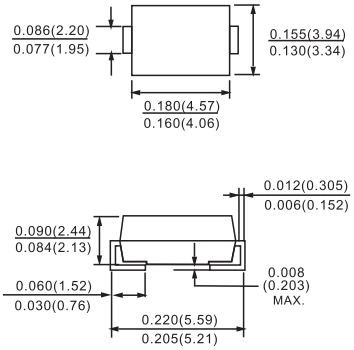
GF2A THRU GF2M

50V-1000V 2.0A

FEATURES

- ◇ Glass passivated device
- ◇ Ideal for surface mouted applications
- ◇ Low leakage current
- ◇ Metallurgically bonded construction
- ◇ High temperature soldering: 250°C/10 seconds at terminals

DO-214AA(SMB)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- ◇ Case:JEDEC DO-214AA,molded plastic over passivated chip
- ◇ Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.006 ounces, 0.02 gram
- ◇ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Symbol	Description	GF2A	GF2B	GF2D	GF2G	GF2J	GF2K	GF2M	Unit	Conditions
V_{RRM}	Max. Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V	
$I_{F(AV)}$	Max. Average Rectified Current	2.0							A	
I_{FSM}	Peak Forward Surge Current	65							A	
V_F	Max. Instantaneous Forward Voltage	1.0							V	I_F=2.0A
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage	5							μA	T_A=25 °C
		30								T_A=125 °C
		80								T_A=150 °C
C_J	Typical Junction Capacitance	25							pF	
$R_{\theta-JA}$	Max. Thermal Resistance	53							° C/W	
$R_{\theta-JL}$		10								
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-65 to 175							° C	

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RATINGS AND CHARACTERISTIC CURVES GF2A THRU GF2M

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

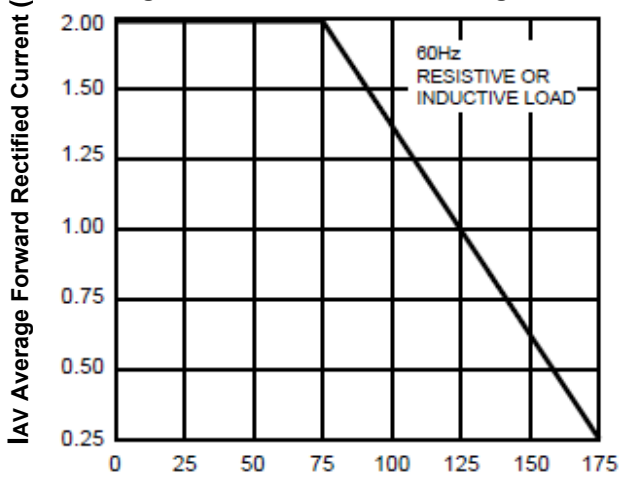

Fig.2-Max. Non-Repetitive Forward Surge Current

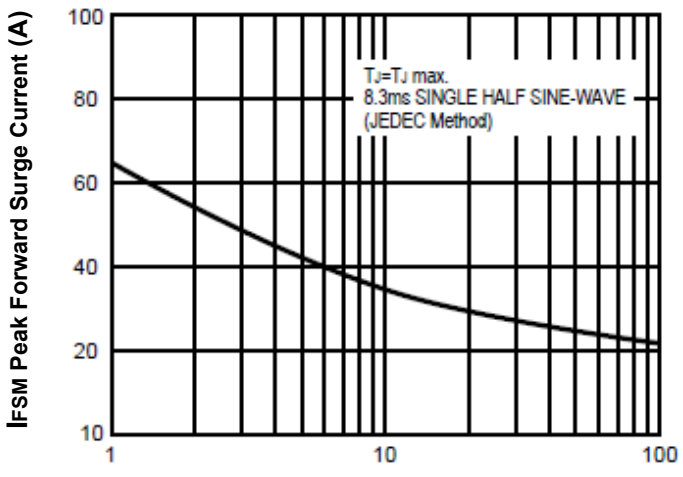

Fig.3- Typical Instantaneous Forward Characteristics

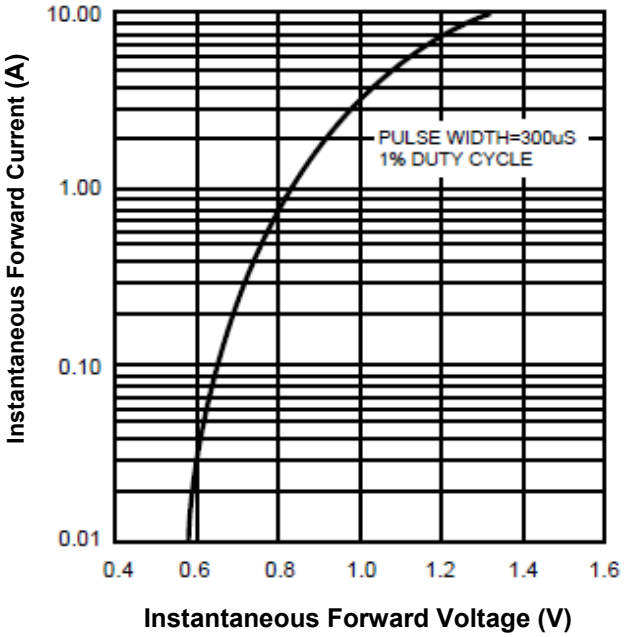

Fig.4- Typical Reverse Characteristic