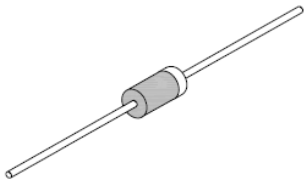
0.2A High Voltage Fast Recovery Rectifiers

Features

- Fast recovery times
- Lost cost
- Designed for photo flash application
- Beveled round chip, avalanche operation
- RoHS compliance



DO-15

RoHS Compliant

Mechanical Data

Case:	JEDEC DO-15 molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Color band denotes cathode end
Weight:	0.015 ounces, 0.4 gram

Maximum Ratings and Electrical Characteristics *(T_A=25ºC unless noted otherwise)*

Symbol	Description	GF235	GF240	GF250	GF260	Unit	Conditions
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	3500	4000	5000	6000	V	
V_{RMS}	Maximum RMS Voltage	2450	2800	3500	4200	V	
V_{DC}	Maximum DC Blocking Voltage	3500	4000	5000	6000	V	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	0.2				A	L=10mm, T_A=55° C
I_{FSM}	Peak Forward Surge Current	25		20		A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Maximum Instantaneous Forward Voltage	8.0		12.0		V	I_F=0.2A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0				µA	T_A=25° C
T_{rr}	Typical Reverse Recovery Time	500				nS	I_F=0.5A, I_R=1A, I_{rr}=0.25A

GF235 - GF260

Symbol	Description	GF235	GF240	GF250	GF260	Unit	Conditions
C_J	Typical Junction Capacitance	6.0		4.0		pF	V_R=4V, f=1MHz
T_J	Operating Temperature range	-65 to +125				° C	
T_{STG}	Storage Temperature Range	-65 to +150				° C	

Typical Characteristics Curves

Fig.1-Max. Forward Current Rating Effect of Copper Area. Resistive/Inductive Load

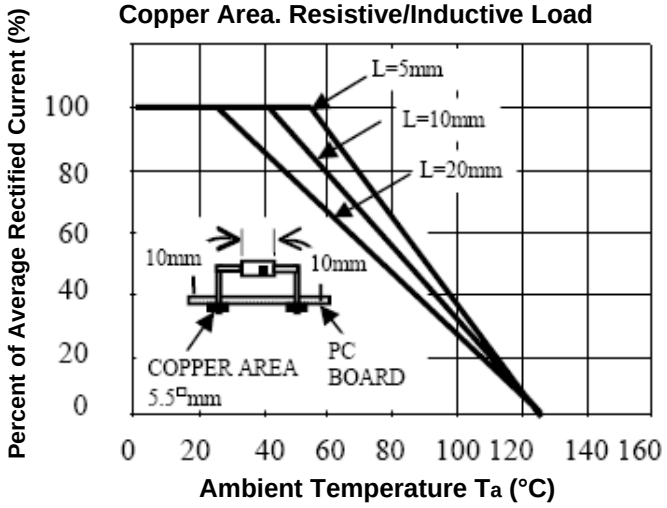


Fig.2-Max. Non-Repetitive Forward Surge Current

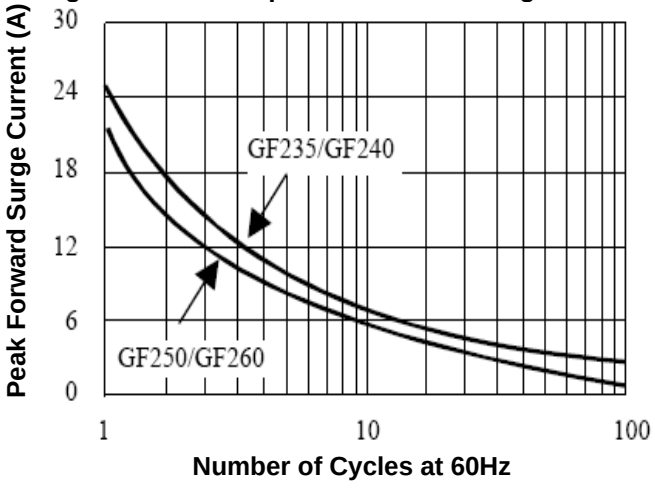


Fig.3- Typical Forward Characteristics

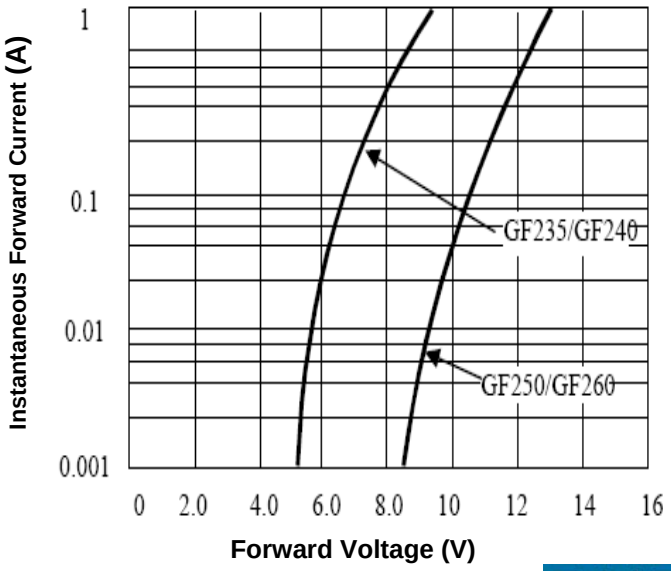


Fig.4-Typical Reverse Characteristics

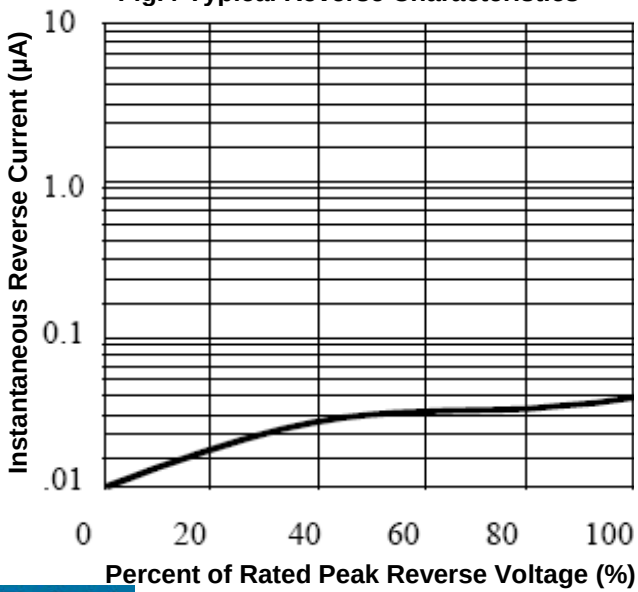
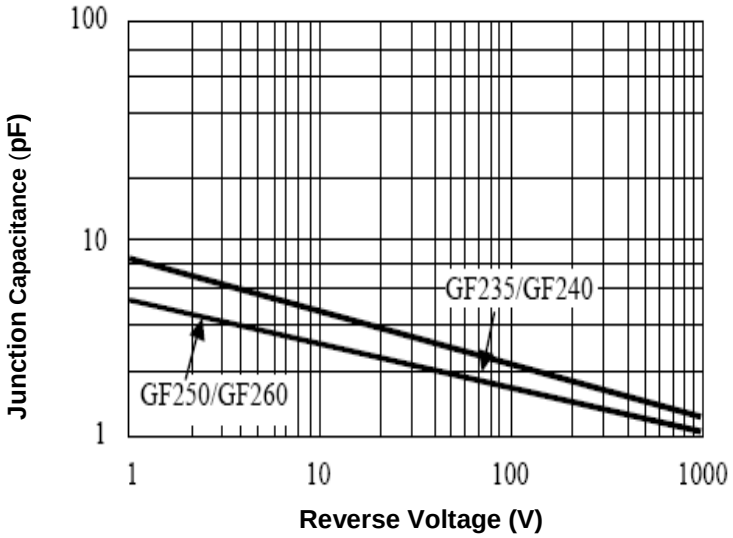
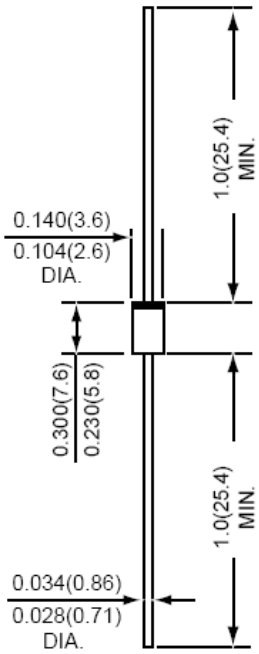


Fig.5- Typical Junction Capacitance



Dimensions in inches (mm)



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