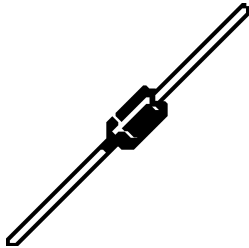
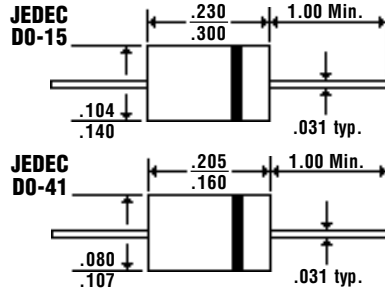


Description



Mechanical Dimensions

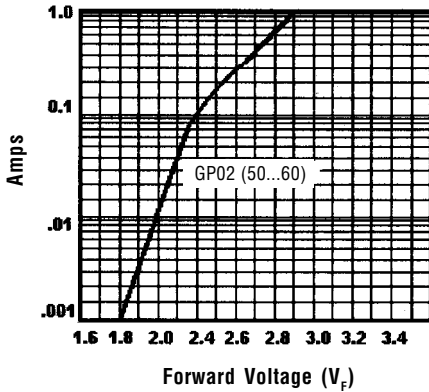


Features

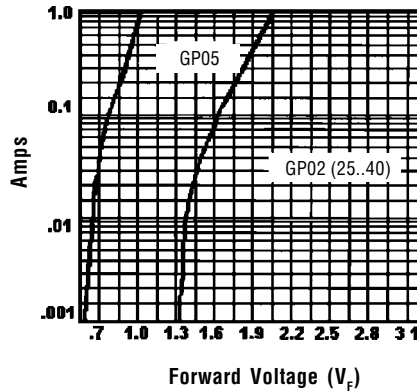
- DESIGNED FOR PHOTO FLASH APPLICATIONS
- LOW COST
- BEVELED ROUND CHIP, AVALANCHE OPERATION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	GP02 & GP05 Series			Units
	GP02		GP05	
	(25-40)	(50-60)		
Maximum Ratings				
Average Forward Rectified Current... I_o @ $T_A = 55^\circ\text{C}$	< 0.2 >	< 0.2 >	< 0.5 >	Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 8.3 mS, 1/2 Sine Wave	< 25 >	< 20 >	< 30 >	Amps
Forward Voltage... V_F @ $I_F = 0.2$ Amps (GP02) @ $I_F = 0.5$ Amps (GP05)	< 3.0 >	< 3.0 >	< 2.1 >	Volts
DC Reverse Current... I_R	.....	5.0	.....	μAmps
Typical Reverse Recovery Time... T_{RR}	.....	500	.....	nS
Typical Junction Capacitance... C_j	< 7.0 >	< 5.0 >	< 9.0 >	pF
Operating Temperature Range... T_j	..... -65 to 125			$^\circ\text{C}$
Storage Temperature Range... T_{STRG}	..... -65 to 150			$^\circ\text{C}$
Maximum Peak Inverse Voltage...	Type	Package	V_{RM}	
	GP05-10	DO-41	1000	Volts
	GP05-15	DO-41	1500	Volts
	GP05-16	DO-41	1600	Volts
	GP05-18	DO-41	1800	Volts
	GP05-20	DO-41	2000	Volts
	GP02-25	DO-41	2500	Volts
	GP02-30	DO-41	3000	Volts
	GP02-35	DO-15	3500	Volts
	GP02-40	DO-15	4000	Volts
	GP02-45	DO-15	4500	Volts
	GP02-50	DO-15	5000	Volts
	GP02-60	DO-15	6000	Volts

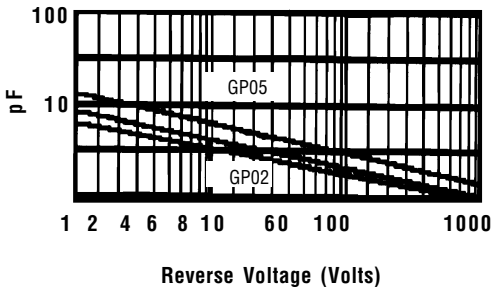
Typical Forward Characteristics



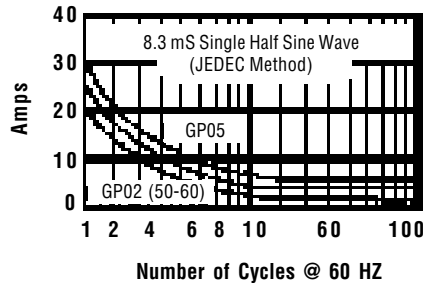
Typical Forward Characteristics



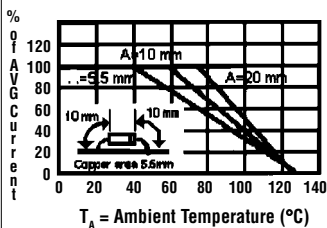
Typical Junction Capacitance



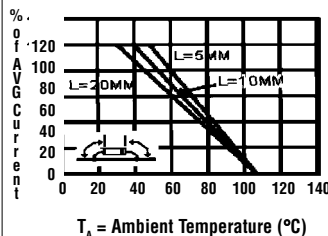
Maximum Surge Current



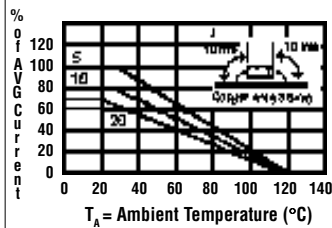
**Maximum Current Rating
Effect of Copper Area
Resistive/Inductive Load**



**Maximum Current Rating
Effect of Lead Lengths
Resistive/Inductive Load**



**Maximum Current Rating
Capacitive Load**



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.