

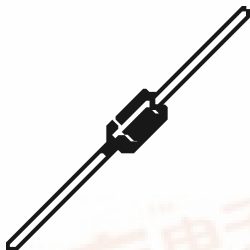


Data Sheet

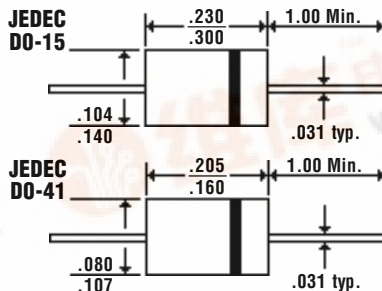
HIGH VOLTAGE MINIATURE PLASTIC RECTIFIERS

GP02 & GP05 Series

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	
Maximum Ratings	(25-40)	(50-60)		
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	D0-41	1000	Volts
	GP05-15	D0-41	1500	Volts
	GP05-16	D0-41	1600	Volts
	GP05-18	D0-41	1800	Volts
	GP05-20	D0-41	2000	Volts
	GP02-25	D0-41	2500	Volts
	GP02-30	D0-41	3000	Volts
	GP02-35	D0-15	3500	Volts
	GP02-40	D0-15	4000	Volts
	GP02-45	D0-15	4500	Volts
	GP02-50	D0-15	5000	Volts
	GP02-60	D0-15	6000	Volts

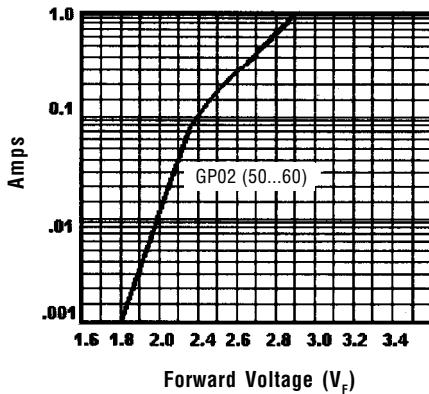




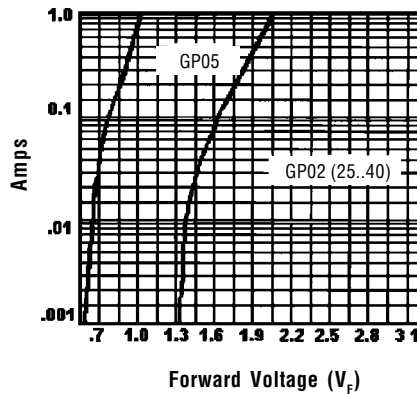
HIGH VOLTAGE MINIATURE PLASTIC RECTIFIERS

GP02 & GP05 Series

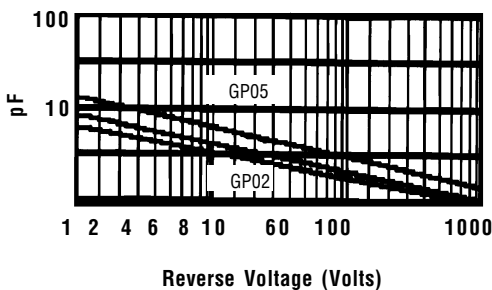
Typical Forward Characteristics



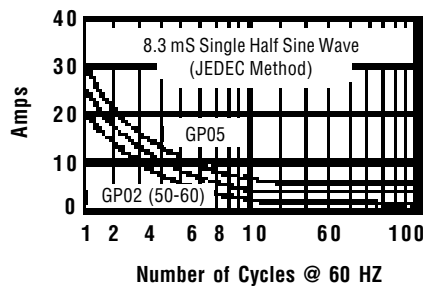
Typical Forward Characteristics



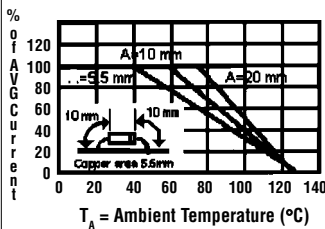
Typical Junction Capacitance



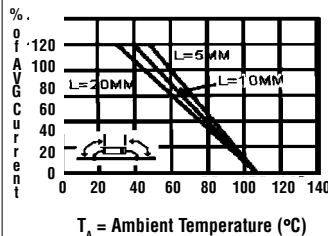
Maximum Surge Current



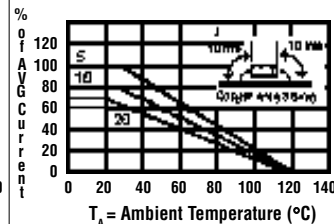
Maximum Current Rating
Effect of Copper Area
Resistive/Inductive Load



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%.