

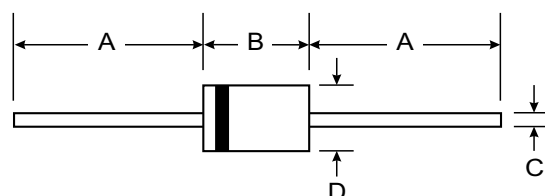
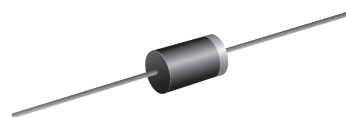
**VOLTAGE RANGE: 100 - 200V**  
**CURRENT: 5.0 A**

### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### Mechanical Data

- Case: DO-201AD Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	FGP50B	FGP50C	FGP50D	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	150	200	Volts
Maximum Average Forward Current 0.375"(9.5mm) Lead Length    T <sub>a</sub> = 55 °C	I <sub>F(AV)</sub>	5.0			Amps
Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	135			Amps
Maximum Peak Forward Voltage at I <sub>F</sub> = 5.0 A.	V <sub>F</sub>	0.95			Volts
Maximum DC Reverse Current    T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage    T <sub>a</sub> = 100 °C	I <sub>R</sub>	5			μA
	I <sub>R(H)</sub>	50			μA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	35			ns
Typical Junction Capacitance ( Note 2 )	C <sub>J</sub>	50			pf
Junction Temperature Range	T <sub>J</sub>	- 65 to + 150			°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150			°C

#### Notes :

- ( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25 A.
- ( 2 ) Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc



RATINGS AND CHARACTERISTICS CURVES FGP50B - FGP50D

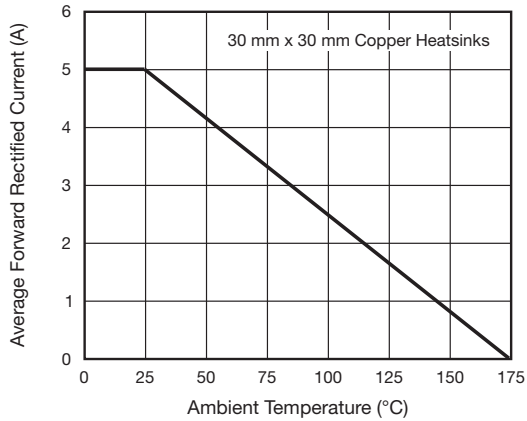


Fig. 1 - Maximum Forward Current Derating Curve

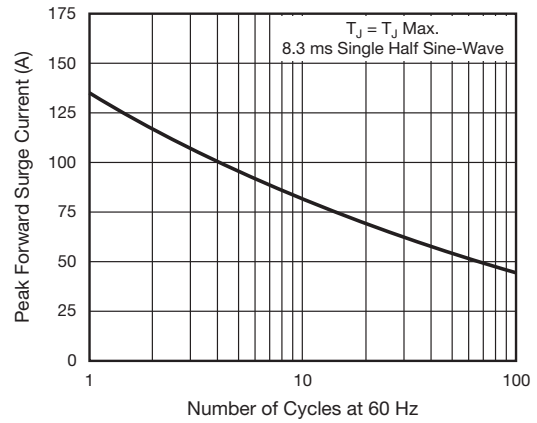


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

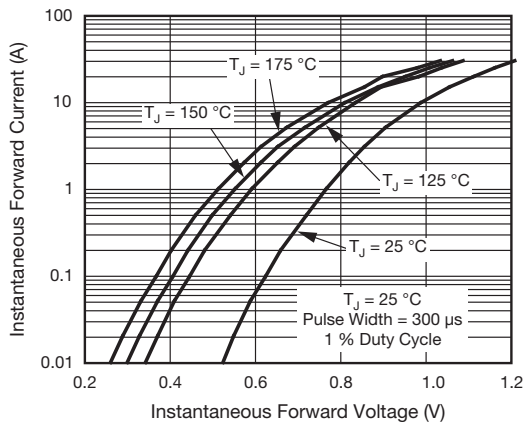


Fig. 3 - Typical Instantaneous Forward Characteristics

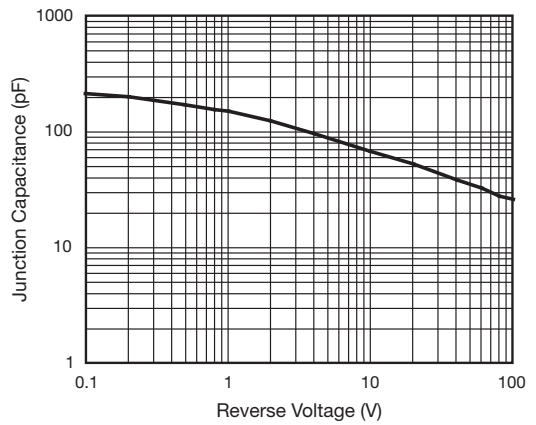


Fig. 5 - Typical Junction Capacitance

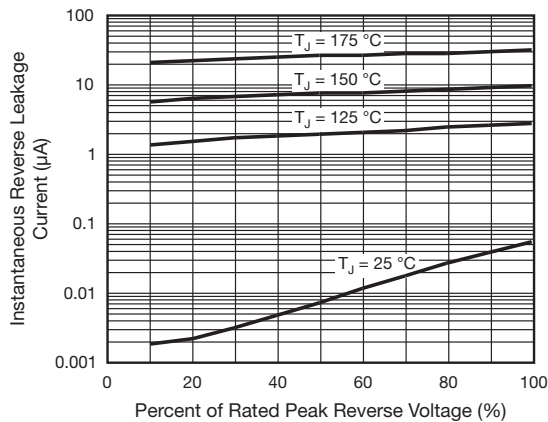


Fig. 4 - Typical Reverse Leakage Characteristics