

VOLTAGE RANGE: 50 -200V

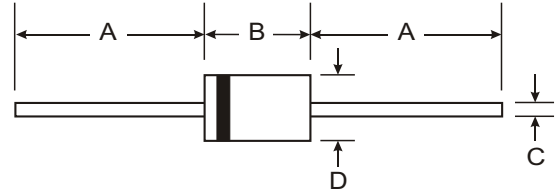
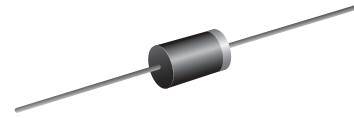
CURRENT: 1.0 A

Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Super fast recovery time

Mechanical Data

- Case: D O - 4 1 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	FGP10B	FGP10C	FGP10D	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	100	150	200	Volts
Maximum RMS Voltage	VRMS	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	100	150	200	Volts
Maximum Average Forward Current 0.375"(9.5mm) Lead Length $T_a = 55^\circ\text{C}$	IF(AV)	1.0			Amp.
Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method)	IFSM	30			Amps.
Maximum Peak Forward Voltage at $I_F = 1.0\text{ A}$.	V _F	0.95			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0			μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35			ns
Typical Junction Capacitance (Note 2)	C _J	50			pf
Junction Temperature Range	T _J	- 65 to + 150			$^\circ\text{C}$
Storage Temperature Range	T _{STG}	- 65 to + 150			$^\circ\text{C}$

Notes :

- (1) Reverse Recovery Test Conditions : $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

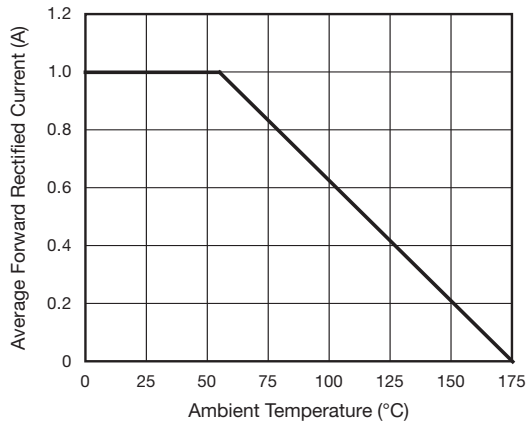


Fig. 1 - Maximum Forward Current Derating Curve

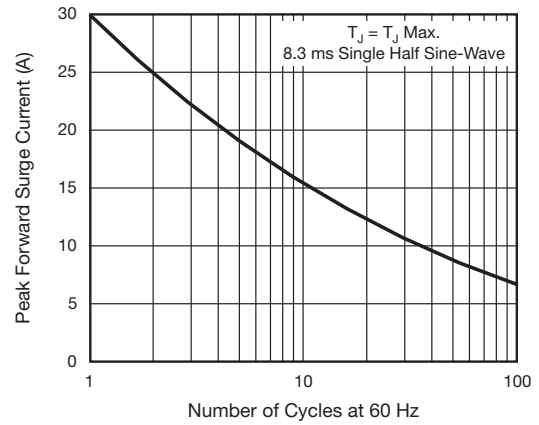


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

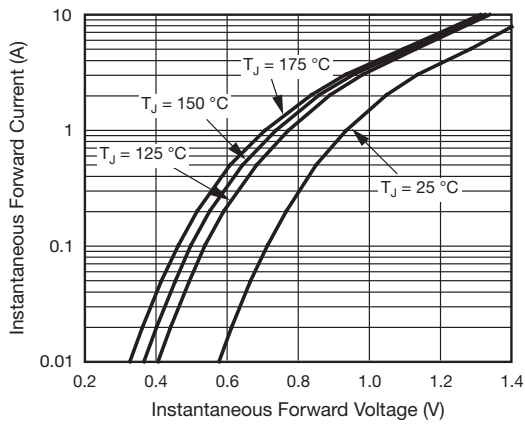


Fig. 3 - Typical Instantaneous Forward Characteristics

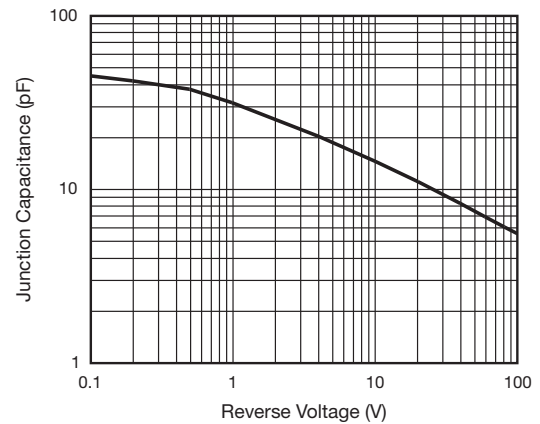


Fig. 5 - Typical Junction Capacitance

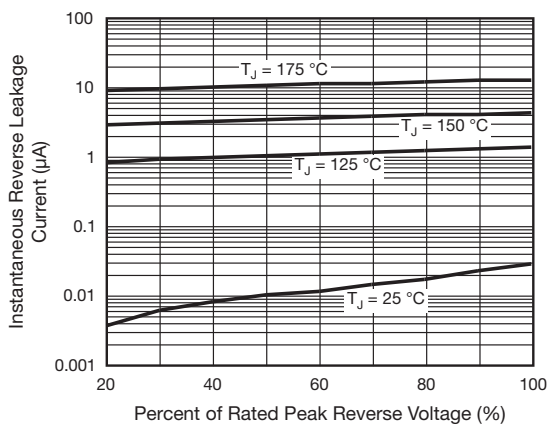


Fig. 4 - Typical Reverse Leakage Characteristics

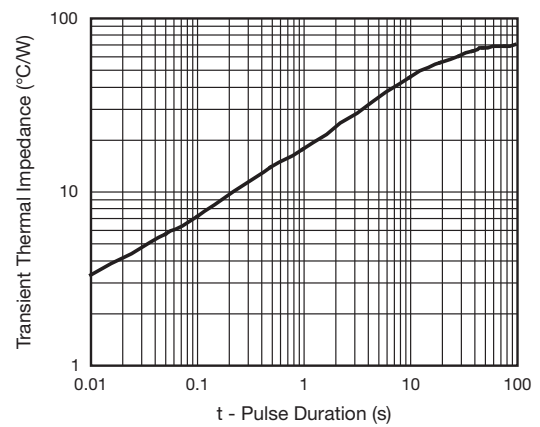


Fig. 6 - Typical Transient Thermal Impedance