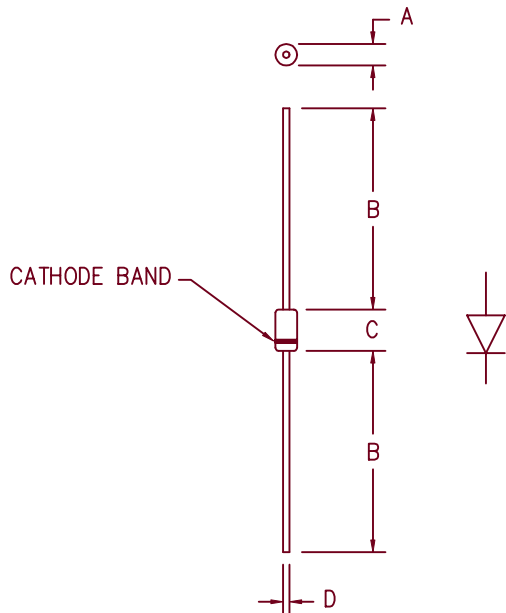


# Ultra Fast Recovery Rectifier UFG110 — UFG120



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.107	2.057	2.718	Dia.
B	1.10	---	27.94	---	
C	.160	.205	4.064	5.207	
D	.028	.034	.711	.864	Dia.

GLASS HERMETIC DO41

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UFG110	100V	100V
UFG115	150V	150V
UFG120	200V	200V

- Ultra fast recovery
- 175°C junction temperature
- $V_{RRM}$  100 to 200 volts
- 1 Amp current rating
- $t_{RR}$  30nS max

## Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 136^\circ C$ Square wave, $R_{\theta JL} = 15^\circ C/W$ , $L = 1/4"$
Maximum surge current	$I_{FSM}$ 25 Amps	8.3 ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	$V_{FM}$ 1.0 Volts	$I_{FM} = 1.0A$ ; $T_J = 25^\circ C^*$
Max reverse recovery time	$t_{RR}$ 30 nS	1/2A, 1A, 1/4A, $T_J = 25^\circ C$
Max peak reverse current	$I_{RM}$ 5 $\mu A$	$V_{RRM}$ , $T_J = 25^\circ C$
Typical junction capacitance	$C_J$ 7 pF	$V_R = 10V$ , $T_J = 25^\circ C$

\*Pulse test: Pulse width 300  $\mu sec$ , Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range	$T_{STG}$	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	$T_J$	$-55^\circ C$ to $175^\circ C$
Maximum thermal resistance	$L = 1/4"$ $R_{\theta JL}$	$15^\circ C/W$ Junction to Lead
Weight		.011 ounces (0.34 grams) typical

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# UFG110 — UFG120

Figure 1  
Maximum Forward Characteristics

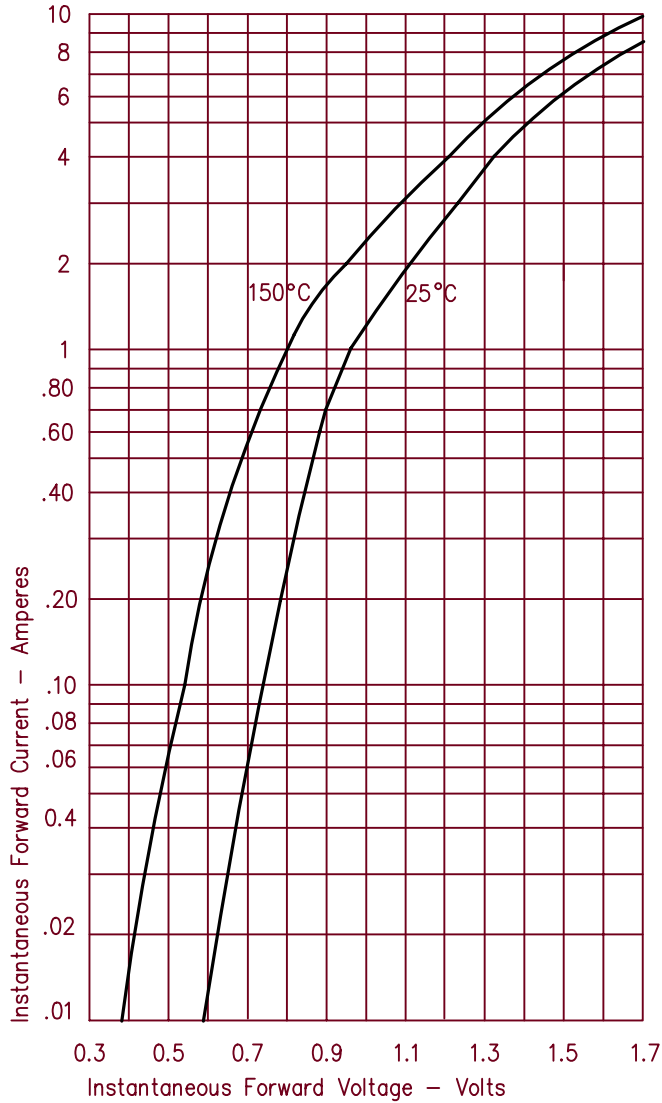


Figure 3  
Typical Junction Capacitance

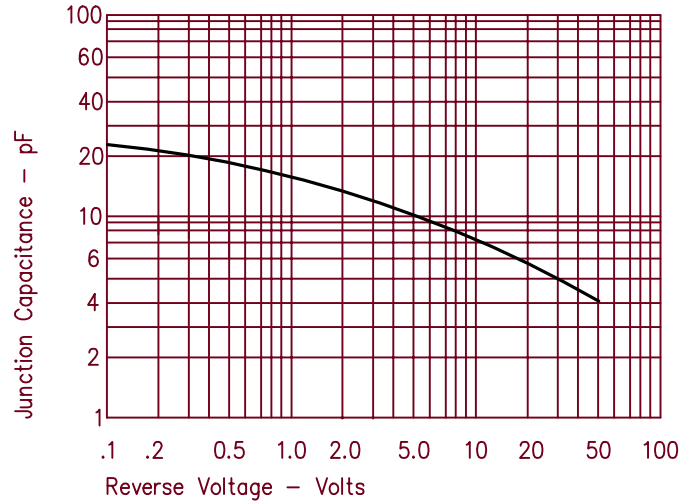


Figure 2  
Typical Reverse Characteristics

