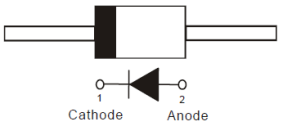
UF2010GP

ULTRAFAST PLASTIC RECTIFIER

Voltage	1000 V	Current	2 A

DO-15



Features

- Glass passivated chip junction
- Ultrafast reverse recovery time
- Low forward voltage drop
- Low switching losses, high efficiency
- High forward surge capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: DO-15 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.014 ounces, 0.4 grams

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum Rms Voltage	V_{RMS}	700	V
Maximum Dc Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	60	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V	C_J	16	pF
Typical Thermal Resistance	$R_{\theta JA}$ (1) $R_{\theta JL}$ (2)	90 32	°C/W
Operating Junction Temperature Range	T_J	-55~150	°C
Storage Temperature Range	T_{STG}	-55~150	°C

UF2010GP

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 1 A, T_J = 25 °C	-	1.21	-	V
		I_F = 2 A, T_J = 25 °C	-	-	1.7	
		I_F = 1 A, T_J = 125 °C	-	0.92	-	
		I_F = 2 A, T_J = 125 °C	-	1.07	-	
Reverse Current	I_R	V_R = 1000 V, T_J = 25 °C	-	-	10	uA
		V_R = 1000 V,T_J= 125 °C	-	15	-	
Reverse Recovery Time	T_{RR}	I_F = 0.5 A, I_R = 1 A, I_{RR} = 0.25 A, T_J = 25 °C	-	-	75	ns

NOTES:

1. The testing condition of the thermal resistance (junction to ambient) is based on 10mm lead length between mini copper pads.
2. The testing condition of the thermal resistance (junction to lead) is based on 10mm lead length between two 10cm x 10cm copper pads.

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TYPICAL CHARACTERISTIC CURVES

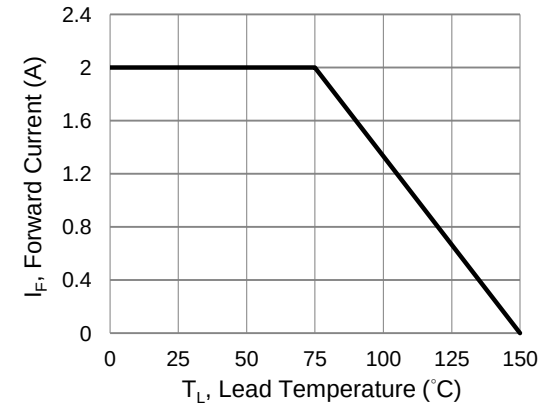

Fig.1 Forward Current Derating Curve

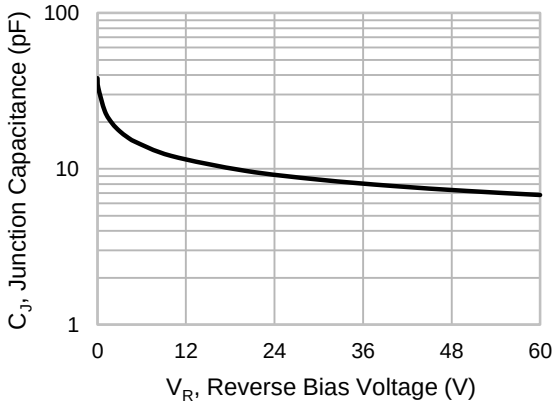

Fig.2 Typical Junction Capacitance

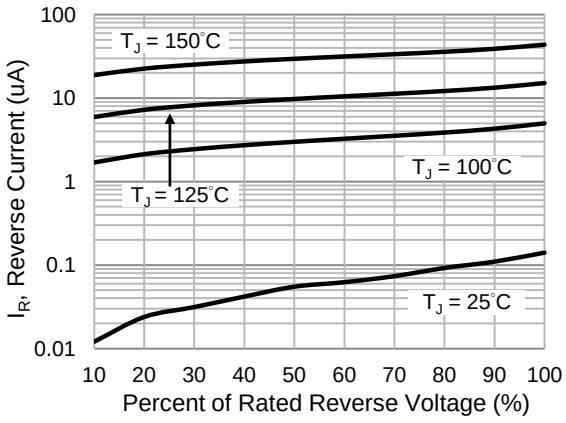

Fig.3 Typical Reverse Characteristics

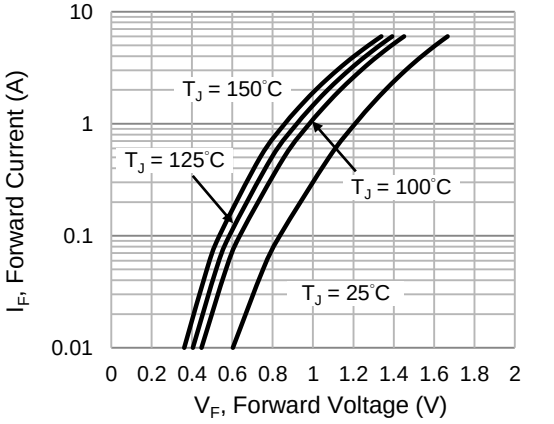

Fig.4 Typical Forward Characteristics

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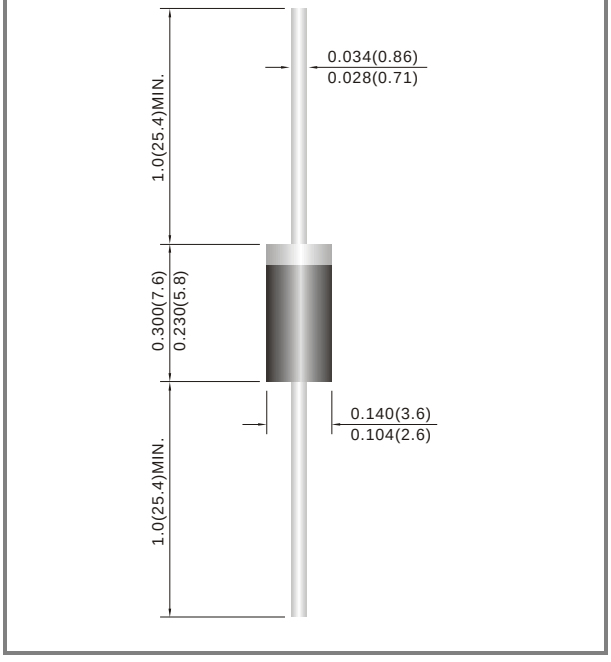
Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
UF2010GP_AY_00001	DO-15	3K pcs / Ammo	UF2010GP	Halogen free

Packaging Information & Mounting Pad Layout

DO-15 Dimension — Unit: inch(mm)



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