



UF3010GP

ULTRAFAST PLASTIC RECTIFIER

Voltage

1000 V

Current

3 A

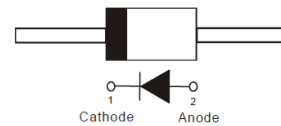
Features

- 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-201AD Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.037 ounces, 1.057 grams

DO-201AD



Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ 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	$I_{F(AV)}$	3	A
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	150	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$	C_J	28	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	38	$^\circ\text{C/W}$
	$R_{\theta JC}^{(2)}$	11	
Operating Junction Temperature Range	T_J	-55~150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 3\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.7	V
Reverse Current	I_R	$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	1	uA
		$V_R = 1000\text{ V}, T_J = 100^\circ\text{C}$	-	-	100	
Reverse Recovery Time	$T_{RR}^{(3)}$	$I_F = 0.5\text{ A}, I_R = 1\text{ A},$ $I_{RR} = 0.25\text{ A}, T_J = 25^\circ\text{C}$	-	-	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
3. Reverse Recovery Time $I_F = 0.5\text{ A}, I_R = 1\text{ A}, I_{RR} = 0.25\text{ A}, T_J = 25^\circ\text{C}$



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TYPICAL CHARACTERISTIC CURVES

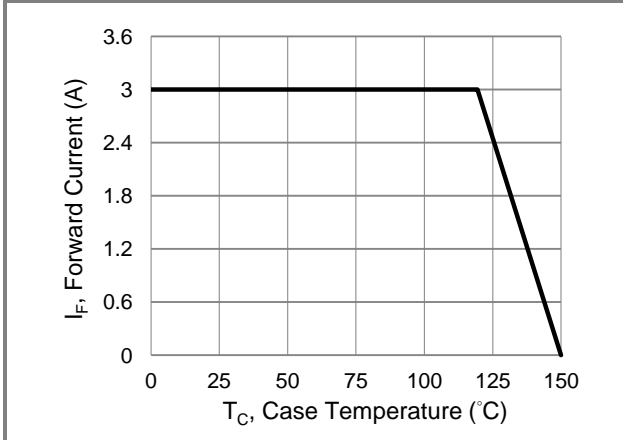


Fig.1 Forward Current Derating Curve

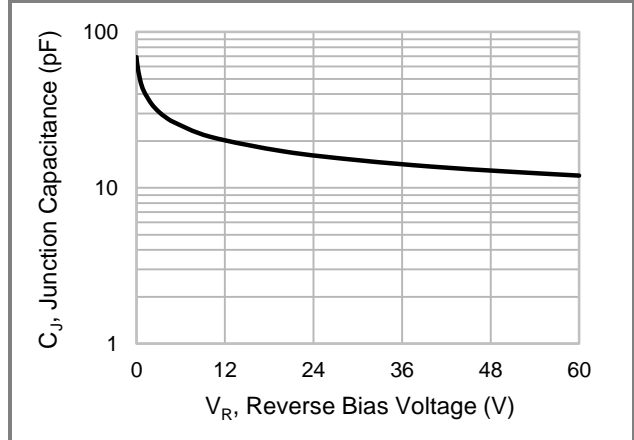


Fig.2 Typical Junction Capacitance

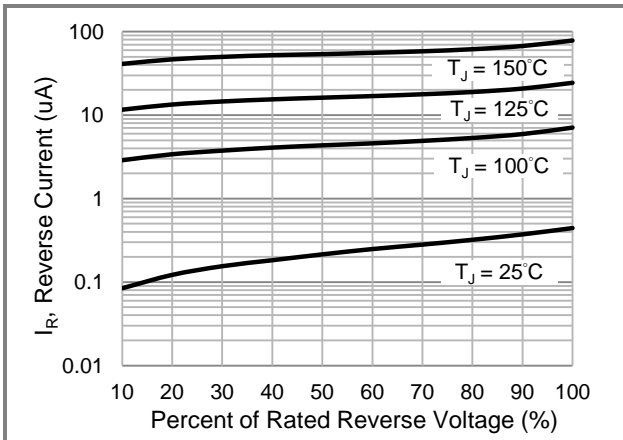


Fig.3 Typical Reverse Characteristics

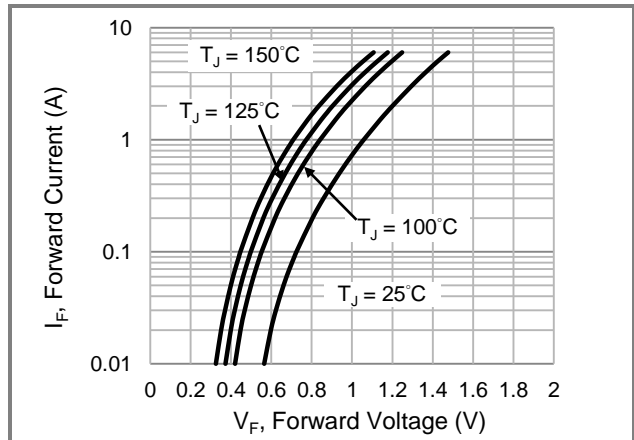


Fig.4 Typical Forward Characteristics

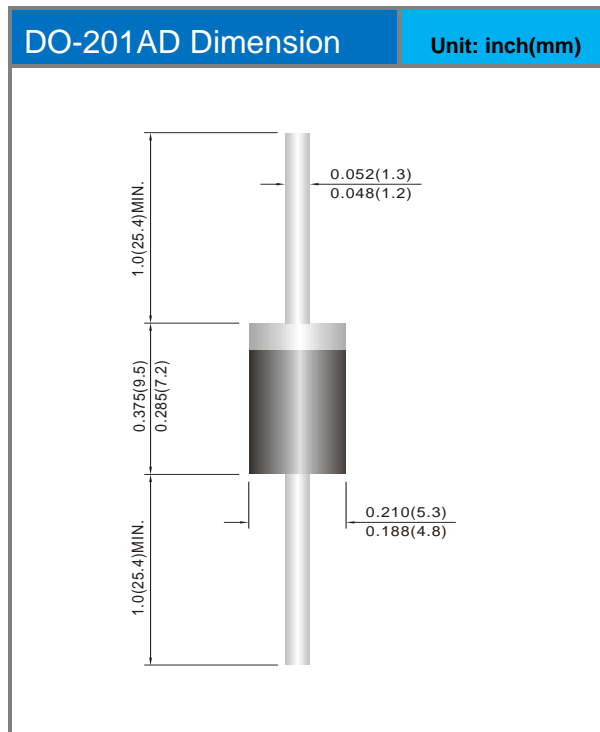


UF3010GP

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
UF3010GP_AY_00001	DO-201AD	1250pcs / Ammo	UF3010GP	Halogen free
UF3010GP_B0_00001	DO-201AD	500pcs / Box	UF3010GP	Halogen free
UF3010GP_R2_00001	DO-201AD	1250pcs / 13" reel	UF3010GP	Halogen free

Packaging Information & Mounting Pad Layout





UF3010GP

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