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UF3010GP



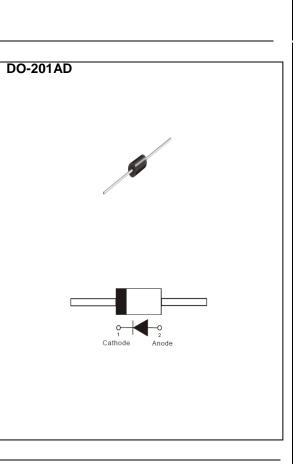
3 A

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



Maximum Ratings and Thermal Characteristics ($T_A = 25 \degree C$ 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	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	150	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	28	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$ $R_{\theta JC}^{(2)}$	38 11	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





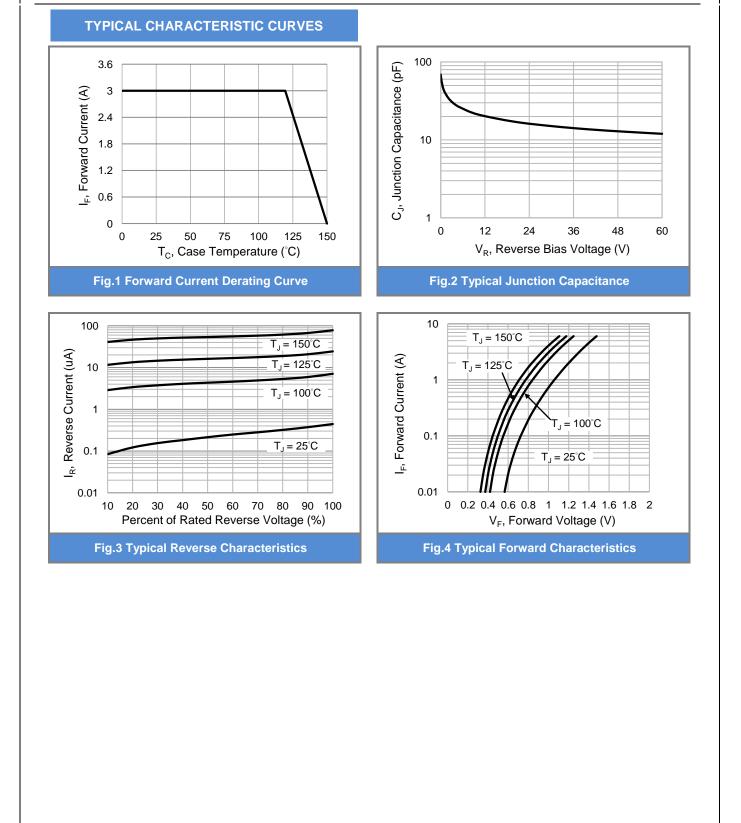
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Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

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





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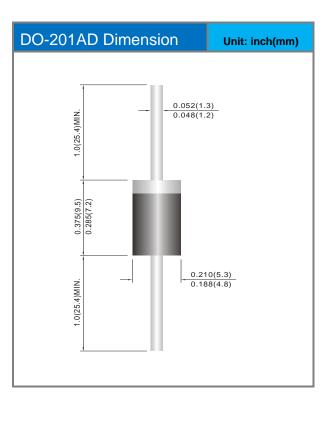




Part No Packing Code Version

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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