



General Purpose Rectifier

Voltage 1000 V Current 2 A

Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

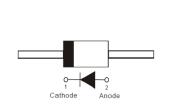
Mechanical Data

• Case: DO-15 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.014 ounces, 0.397 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	٧	
Maximum Average Forward Current	I _{F(AV)}	2	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	70	Α	
Typical Junction Capacitance	Сл	00	pF	
Measured at 1 MHZ And Applied V _R = 4 V		20		
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	65	°C/W	
	Rejc (2)	10		
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T _{STG}	-55~150	°C	





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	ı	0.87	ı	V
		I _F = 2 A, T _J = 25 °C	-	-	1.1	
		I _F = 1 A, T _J = 125 °C	-	0.76	-	
		I _F = 2 A, T _J = 125 °C	-	0.81	-	
Reverse Current	I _R	V _R = 800 V, T _J = 25 °C	ı	50	1	nA
		V _R = 1000 V, T _J = 25 °C	ı	ı	1	uA
		V _R = 1000 V,T _J = 125 °C		8	-	

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 case) is based on 10mm lead length between two 10cm x 10cm copper pads





TYPICAL CHARACTERISTIC CURVES

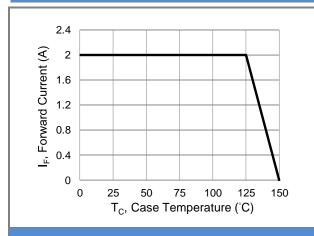


Fig.1 Forward Current Derating Curve

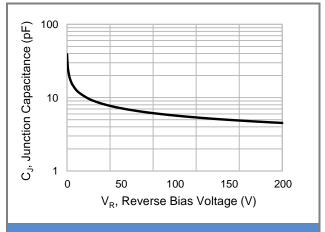


Fig.2 Typical Junction Capacitance

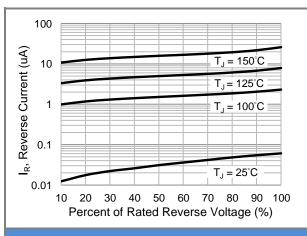


Fig.3 Typical Reverse Characteristics

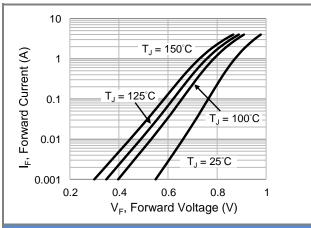


Fig.4 Typical Forward Characteristics

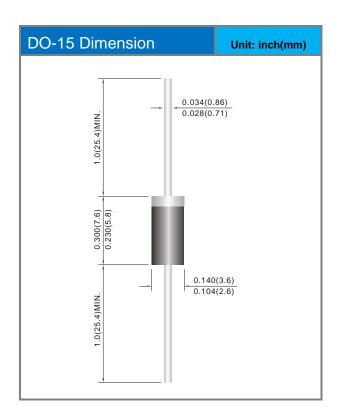




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PG2010-AU_AY_000A1	DO-15	3K pcs / Ammo	PG2010	Halogen free RoHS compliant

Packaging Information







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