



SURFACE MOUNT RECTIFIER

Voltage

200~400 V

Current

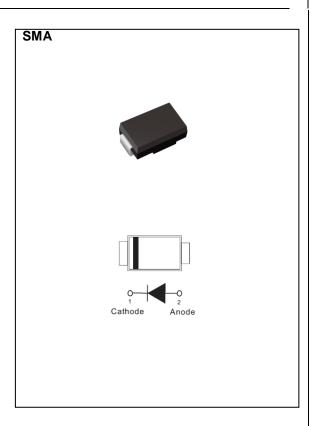
1 A

Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Plastic package has underwriters laboratory flammability classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

- Case: SMA Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0024 ounces, 0.068 grams



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

PARAMETER	SYMBOL	GH1D-AU	GH1G-AU	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	V
Maximum Rms Voltage	V_{RMS}	140	280	V
Maximum Dc Blocking Voltage	V_{DC}	200	400	V
Maximum Average Forward Current	I _{F(AV)}	1		А
Peak Forward Surge Current : 8.3 ms Single Half Sine-		35		А
Wave Superimposed On Rated Load	I _{FSM}			
Typical Junction Capacitance			,	
Measured at 1 MHZ And Applied V _R = 4V	CJ	8		pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	150		°C/W
	R _{θJC} (2)	20		
Operating Junction Temperature Range	TJ	-55~175		°C
Storage Temperature Range	T _{STG}	-55~175		°C





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 0.5A, T_J = 25$ °C	-	0.89	-	V
		I _F = 1A, T _J = 25 °C	-	0.94	1.1	
		I _F = 0.5A, T _J = 125 °C	-	0.77	-	
		I _F = 1A, T _J = 125 °C	-	0.84	-	
Reverse Current	I _R	$V_R = V_{RRM}, T_J = 25$ °C	-	-	1	uA
		$V_R = V_{RRM}, T_J = 125$ °C	-	8.65	-	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.





TYPICAL CHARACTERISTIC CURVES

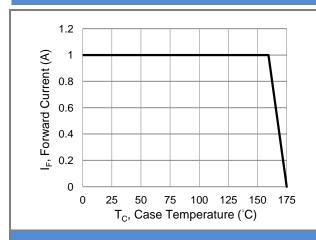


Fig.1 Forward Current Derating Curve

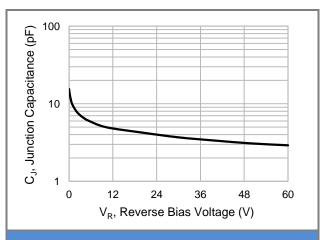


Fig.2 Typical Junction Capacitance

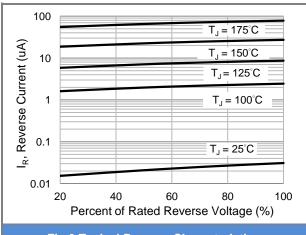


Fig.3 Typical Reverse Characteristics

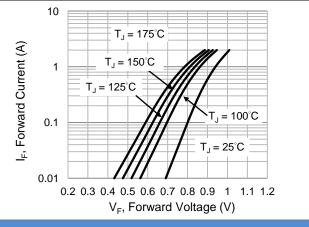


Fig.4 Typical Forward Characteristics

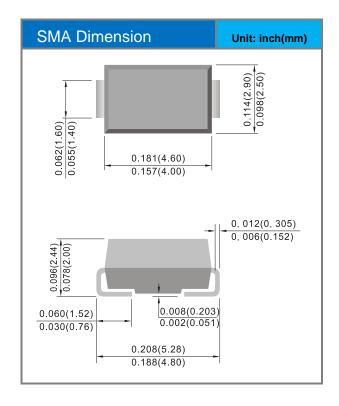


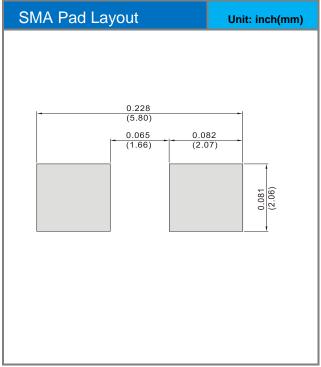


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
GH1D-AU_R2_000A1	SMA	7.5K pcs / 13" reel	GH1D	Halogen free
GH1G-AU_R2_000A1	SMA	7.5K pcs / 13" reel	GH1G	Halogen free

Packaging Information & Mounting Pad Layout









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