

GS1GAL-AU ~ GS1MAL-AU Series **Surface Mount General Purpose Rectifiers** SOD-123FL 400~1000 V Voltage Current 1 A **Features** • For surface mounted applications in order to optimize board space Ideal for automated placement • High temperature soldering guaranteed: 260°C/10 seconds at terminals Low profile package • Glass passivated junction • AEC-Q101 qualified • Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard **Mechanical Data** Cathode Anode • Case : SOD-123FL Package • Terminals : Solderable per MIL-STD-750, Method 2026 • Approx. Weight : 0.0173 grams

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

PARAMETER		SYMBOL	GS1GAL-AU	GS1JAL-AU	GS1KAL-AU	GS1MAL-AU	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	400	600	800	1000	V
Maximum Average Forward Current		I _{F(AV)}	1				А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		I _{FSM}	30				А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4V$		CJ	7				pF
	(Note 1)	$R_{ extsf{ heta}JA}$	210				
Typical Thermal Resistance	(Note 2)	$R_{ extsf{ heta}JC}$	37				°C/W
	(Note 2)	$R_{ extsf{ heta}JL}$	32				
Operating Junction Temperature Range		TJ	-55~150				°C
Storage Temperature Range		T _{STG}	-55~150				°C



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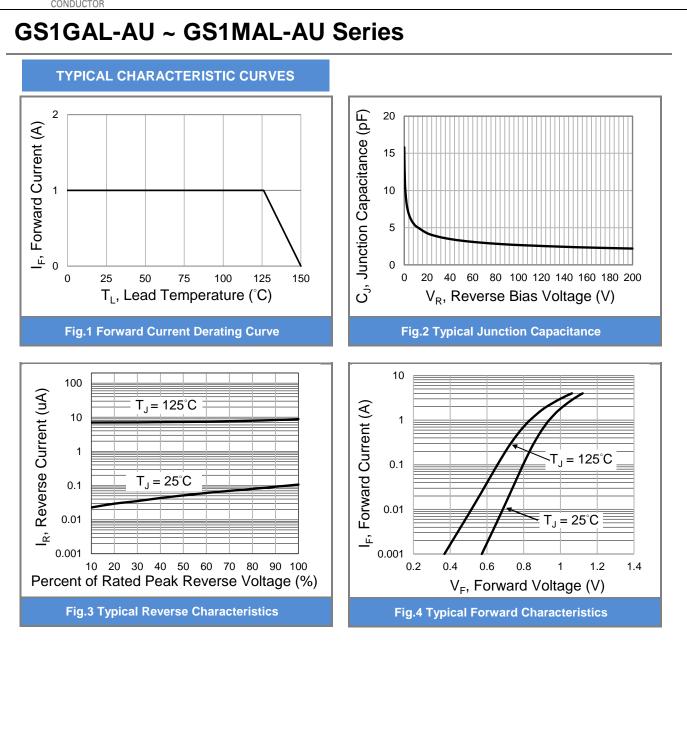
Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	$I_F = 1A, T_J = 25 ^{\circ}C$	-	-	1.1	V
		$V_R = V_{RRM}, T_J = 25 ^{\circ}C$	-	-	1	
Reverse Current	I _R	$V_R = V_{RRM}, T_J = 125 ^{\circ}\text{C}$	-	-	50	uA

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.





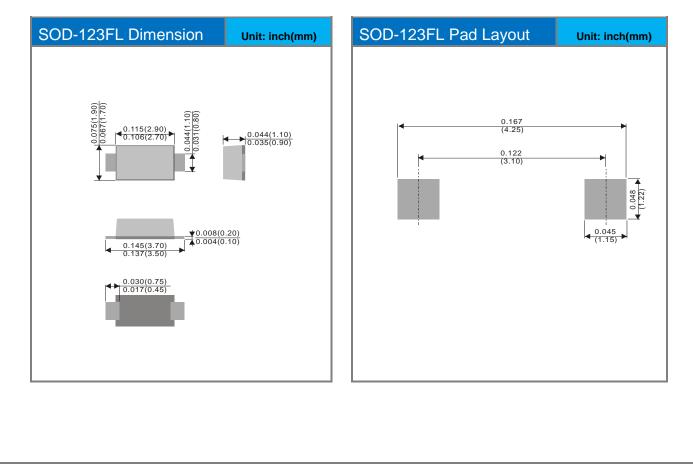


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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GS1GAL-AU	SOD-123FL	3K pcs / 7" reel	1GL
GS1JAL-AU	SOD-123FL	3K pcs / 7" reel	1JL
GS1KAL-AU	SOD-123FL	3K pcs / 7" reel	1KL
GS1MAL-AU	SOD-123FL	3K pcs / 7" reel	1ML

Packaging Information & Mounting Pad Layout





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