



SURFACE GENERAL PURPOSE RECTIFIERS

VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

FEATURES

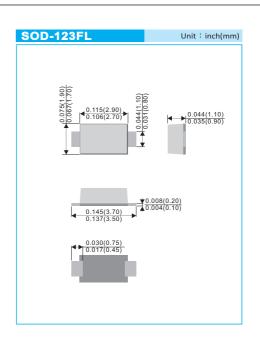
- For surface mounted applications in order to optimize board space
- · Low profile package
- Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- · Glass passivated chip junction
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123FL, Molded plastic over passivated junction
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- Standard Packaging: 8mm tape (EIA-481)
- Polarity: Color band denotes cathode end







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER		GS1000FL-AU	GS1001FL-AU	GS1002FL-AU	GS1004FL-AU	GS1006FL-AU	GS1008FL-AU	GS1010FL-AU	UNITS
Marking Code		1A	1B	1D	1G	1J	1K	1 M	
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	٧
Maximum RMS Voltage		35	70	140	280	420	640	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (Note 1)		1						Α	
Peak One Cycle Surge Forward Current (non-repetitive)	I _{FSM}	30 (60Hz)							А
Maximum Forward Voltage at 1A		1.1							V
Maximum DC Reverse Current at Rated DC Blocking TA=25°C Voltage TA=125°C	I _R	1 50				μА			
Typical Junction Capacitance at 4V, MHz ${\sf C}_{\sf J}$			4						pF

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS1000FL-AU	GS1001FL-AU	GS1002FL-AU	GS1004FL-AU	GS1006FL-AU	GS1008FL-AU	GS1010FL-AU	UNITS
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	65							°C / W
Operating and Storage Temperature Range	T_{J},T_{STG}	-50 TO +150					°C		

NOTES:1.Pulse test: 300u pulse width, 1% duty cycle.

2.Soldering land: 6mm x 6mm





RATING AND CHARACTERISTIC CURVES

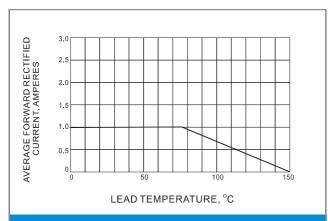


Fig. 1 FORWARD CURRENT DERATING CURVE

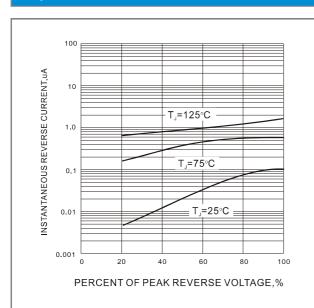


Fig.3 TYPICAL REVERSE CHARACTERISTICS

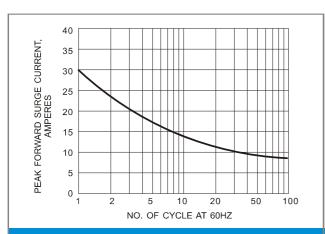


Fig.5- MAXIMUM NON - REPETITIVE SURGE CURRENT

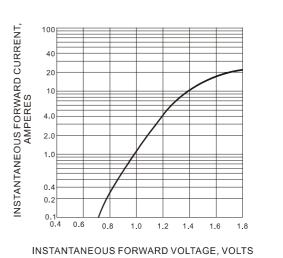


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

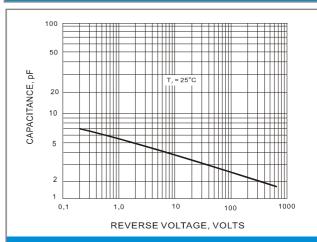
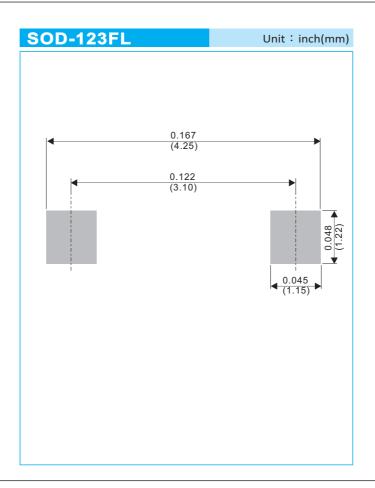


Fig.4 TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

GS1000FL-AU_R1_000A1 GS1000FL-AU_R2_000A1

For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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