



SURFACE GENERAL PURPOSE RECTIFIERS

VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes

FEATURES

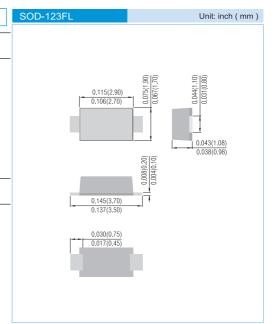
- For surface mounted applications
- · Low profile package
- · Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- · Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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 cathode







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS1000FL	GS1001FL	GS1002FL	GS1004FL	GS1006FL	GS1008FL	GS1010FL	UNITS
Marking Code		1A	1B	1D	1G	1J	1 K	1 M	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (Note 1)	I F(AV)	1.0							А
Peak one cycle surge forward current (non-repetitive)	I _{FSM}	30 (60Hz)							А
Maximum Forward Voltage at 1.0A	V _F	1.1							V
Maximum DC Reverse Current at TJ=25°C Rated DC Blocking Voltage TJ=125°C	I _R	1 50						μА	
Typical Junction capacitance at 4V, MHz	CJ	4							pF

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS1000FL	GS1001FL	GS1002FL	GS1004FL	GS1006FL	GS1008FL	GS1010FL	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

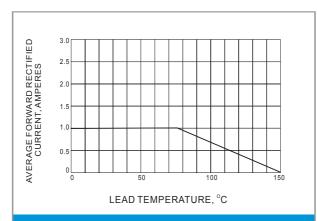


Fig.1 FORWARD CURRENT DERATING CURVE

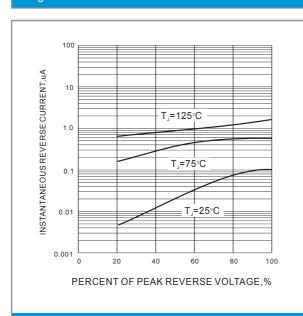


Fig.3 TYPICAL REVERSE CHARACTERISTICS

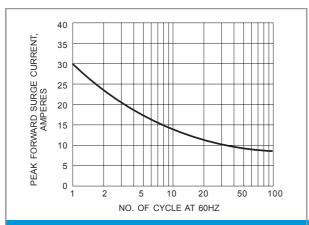


Fig.5- MAXIMUM NON - REPETITIVE SURGE CURRENT

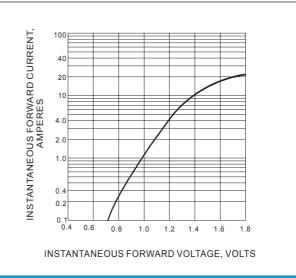


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

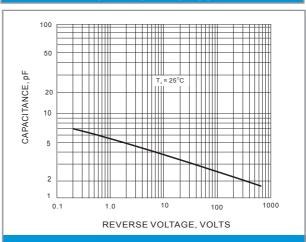
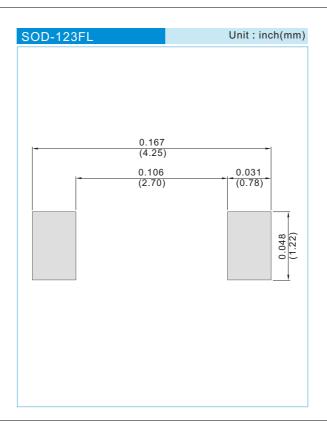


Fig.4 TYPICAL JUNCTION CAPACITANCE





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_R1_00001 GS1000FL_R2_00001

For example:



Packing Code XX					Version Code XXXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st 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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