



SMALL SURFACE MOUNT FAST DIODES

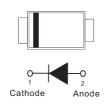
VOLTAGE 100 to 800 Volt CURRENT 1 Ampere

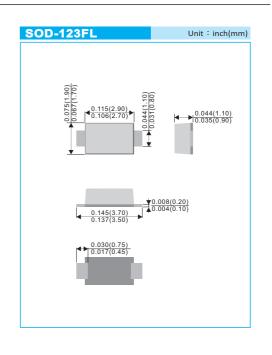
FEATURES

- For surface mounted applications in order to optimize board space
- Ideal for automated placement
- Glass Passivated Chip Junction
- High temperature soldering : 260°C / 10 seconds at terminals
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- · Polarity: Color band denotes cathode end





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

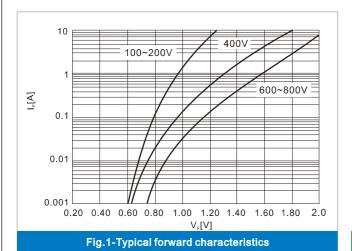
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Rating	Test condition	Symbol	US1001FL	US1002FL	US1004FL	US1006FL	US1008FL	Units
Marking code		-	U1B	U1D	U1G	U1J	U1K	-
Maximum repetitve peak reverse voltage		V _{RRM}	100	200	400	600	800	V
Maximum RMS voltage		V _{RMS}	70	140	280	420	560	٧
Maximum DC blocking voltage		V_R	100	200	400	600	800	V
Maximum average forward rectified current	T _A =25°C	I _{F(AV)}	1					
Peak forward surge current 8.3ms single half sine-wave	T _L =25°C	I _{FSM}	30					Α
Maximum instantaneous forward voltage	1A	V _F	1 1.4			1	1.7	
Maximum DC reverse current at rated DC blocking voltage	T _J =25°C	I _R	1					μА
Reverse recovery time	I _F =0.5A I _R =1A I _r =0.25A	t _{rr}	50		100		nS	
Typical capacitance	4V,1MHz	C _J	9					pF
Typical thermal resistance	(Note 1)	R _{eJA}	200					°C/W
Operating junction and storage temperature range		T_J , T_{STG}	-55 to +150					°C

NOTE: 1.Mounted on an FR4 PCB, single-sided copper, mini pad.







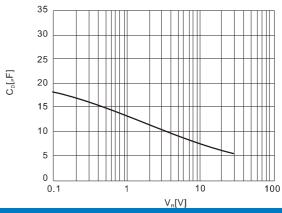
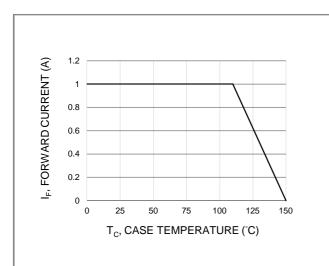


Fig.2-Typical diode capacitance vs. Reverse voltage





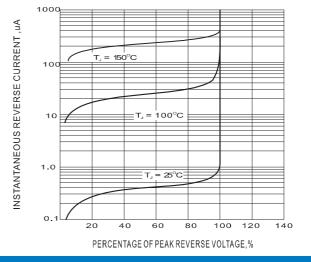


Fig.4-TYPICAL REVERSE CHARACTERISTIC

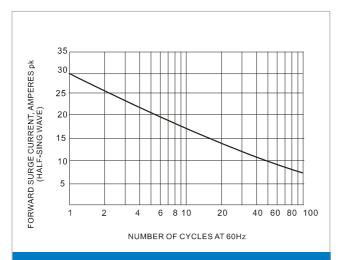
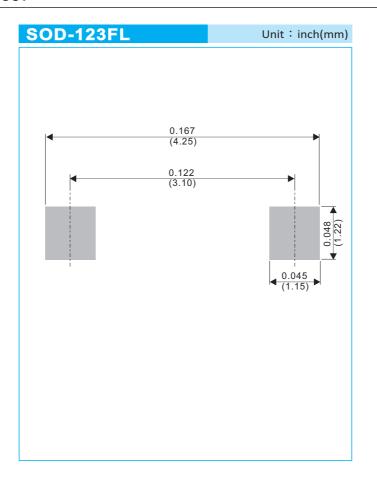


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT





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

US1001FL_R1_00001 US1001FL_R2_00001

For example:



Packing Code XX					Version Code XXXXX				
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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