



US1001FL~US1008FL

SMALL SURFACE MOUNT FAST DIODES

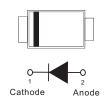
 VOLTAGE
 100 to 800 Volts
 CURRENT
 1.0 Amperes

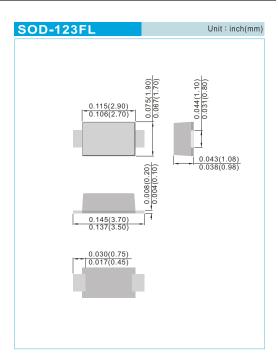
FEATURES

- For surface mounted applications
- · Low profile package
- · Ideal for automated placement
- Glass Passivated Chip Junction
- High temperature soldering : 260°C / 10 seconds at terminals
- 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, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- Polarity : Color band cathode





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%

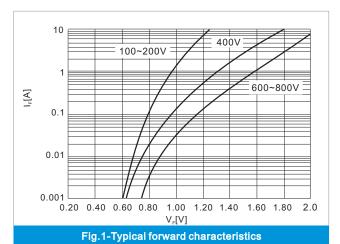
Rating	Test condition	Symbol	US1001FL	US1002FL	US1004FL	US1006FL	US1008FL	Units
Marking code		-	U1B	U1D	U1G	U1J	U1K	-
Maximum repetitve peak reverse voltage		V _{RRM}	100	200	400	600	800	V
Maximum RMS voltage		V _{RMS}	70	140	280	420	560	V
Maximum DC blocking voltage		V _R	100	200	400	600	800	V
Maximum average forward rectified current	T _A =25°C	I _{F(AV)}	1					А
Peak forward surge current 8.3ms single half sine-wave	T _L =25°C	I _{FSM}	30					Α
Maximum instantaneous forward voltage	1A	$V_{_{\rm F}}$	1 1.4			1	1.7	
Maximum DC reverse current at rated DC blocking voltage	T _J =25°C	I _R	1					μΑ
Reverse recovery time	I _F =0.5A I _R =1A I _r =0.25A	ţ,,	50 100			00	nS	
Typical capacitance	4V,1MHz	C	9					pF
Thermal resistance junction to ambient air		R _{eJA}	180					°C/W
Operating junction and storage temperature range		T _J ,T _{STG}	-55 to +150					°C

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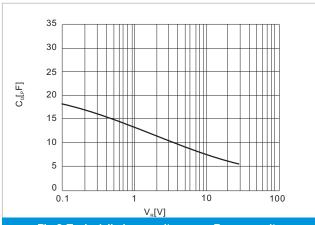
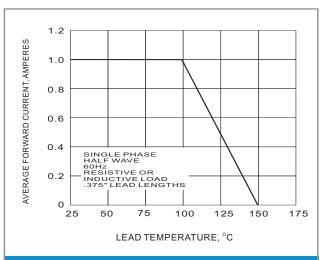


Fig.2-Typical diode capacitance vs. Reverse voltage



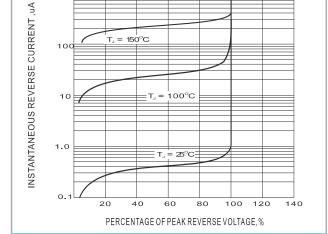


Fig.3 FORWARD CURRENT DERATING CURVE

Fig.4-TYPICAL REVERSE CHARACTERISTIC

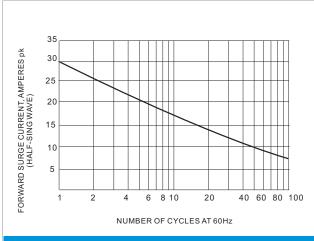


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT

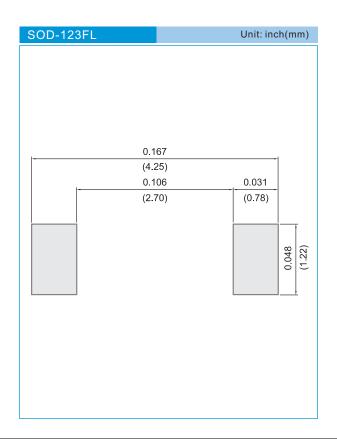
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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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