



ES1001FL~ES1006FL

SMALL SURFACE MOUNT SUPER FAST DIODES

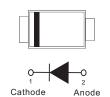
VOLTAGE100 to 600 VoltsCURRENT1.0 Amperes

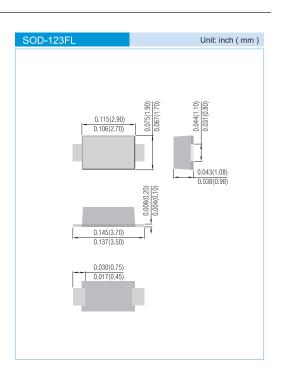
FEATURES

- For surface mounted applications
- Low profile package
- Ideal for automated placement
- Glass Passivated
- High temperature soldering : 260°C / 10 seconds at terminals
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.0006 ounce, 0.0172 gram
- Polarity : Color band cathode





ABSOLUTE RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Test condition	Symbol	ES1001FL	ES1002FL	ES1004FL	ES1006FL	Units
Parameter	lest condition	Symbol	ESTOUTEL	ES 1002FL	ES1004FL	ESTUDEL	Units
Marking Code		-	E1B	E1D	E1G	E1J	-
Maximum repetitve peak reverse voltage		VRRM	100	200	400	600	V
Maximum RMS voltage		VRMS	70	140	280	420	V
Maximum DC blocking voltage		VDC	100	200	400	600	V
Maximum average forward current	TL=120°C	I F(AV)	1				
Peak forward surge current 8.3ms single half sine-wave	T _L =25°C	I FSM	30				
Maximum instantaneous forward voltage	1.0A	VF	0.95		1.25	1.7	٧
Maximum DC reverse current at rated DC blocking voltage	TJ=25°C TJ=100°C	IR	0.5 10				
Reverse recovery time	I F=0.5A I R=1A I RR=0.25A	TRR	35				
Typical capacitance	4V,1MHz	Cı		pF			

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	ES1001FL	ES1002FL	ES1004FL	ES1006FL	Units
Thermal resistance junction to ambient air	R _{eJA} R _{eJC}		°C/W			
Operating junction and storage temperature range	T_{J}, T_{STG}	-55 to +150				°C

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RATING AND CHARACTERISTIC CURVES

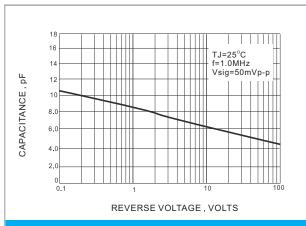


Fig.1-TYPICAL JUNCTION CAPACITANCE

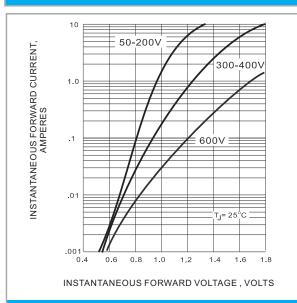


Fig.3-TYPICAL FORWARD CHARACTERISTICS

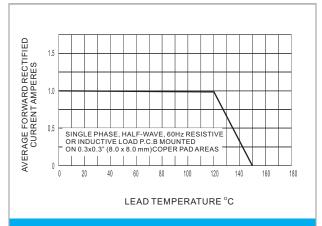


Fig.2-AXIMUM AVERAGE FORWARD CURRENT DERATING

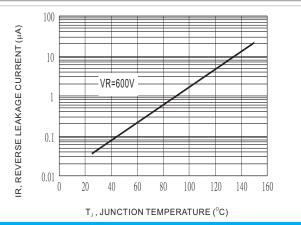


Fig.4-TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

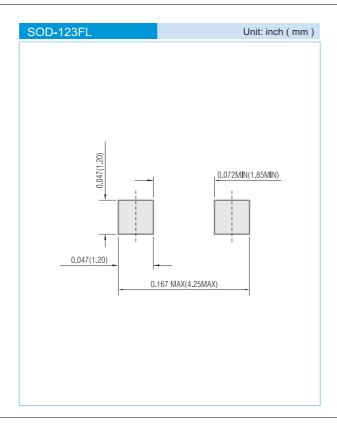
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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