



SMALL SURFACE MOUNT SUPER FAST DIODES

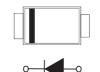
VOLTAGE 100 to 600 Volt CURRENT 1 Ampere

FEATURES

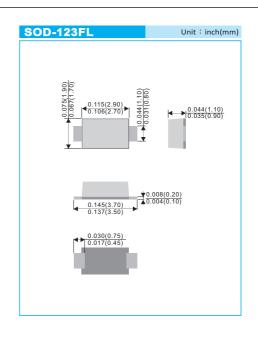
- For surface mounted applications in order to optimize board space
- · Ideal for automated placement
- · Glass passivated
- High temperature soldering : 260°C / 10 seconds at terminals
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

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



Cathode



ABSOLUTE RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Test condition	Symbol	ES1001FL	ES1002FL	ES1004FL	ES1006FL	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	٧
Maximum DC blocking voltage		VDC	100	200	400	600	٧
Maximum average forward current	TL=120°C	I F(AV)	1				Α
Peak forward surge current 8.3ms single half sine-wave	TL=25°C	IFSM	30			Α	
Maximum instantaneous forward voltage	1.0A	VF	0.95		1.25	1.7	V
Maximum DC reverse current at rated DC blocking voltage	TJ=25°C TJ=100°C	IR	0.5 10				μА
Reverse recovery time	I F=0.5A I R=1A I RR=0.25A	TRR	35				ns
Typical capacitance	4V,1MHz	Сл	7			pF	

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter		Symbol	ES1001FL	ES1002FL	ES1004FL	ES1006FL	Units
Typical Thermal Resistane	(Notes 1) (Notes 2)	R _{eJA} R _{eJC}		°CW			
Operating junction and storage temperature range		T_{J}, T_{STG}	-55 to +150		°C		

NOTES: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad area.





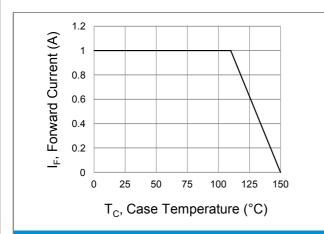


Fig.1 Forward Current Derating Curve

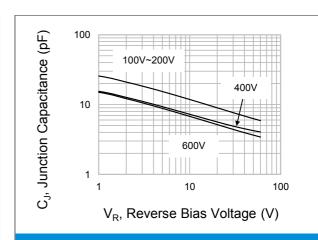


Fig.2 Typical Junction Capacitance

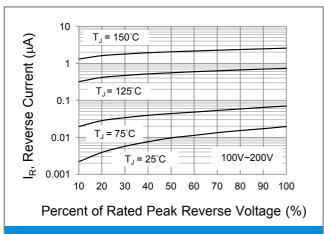


Fig.3 Typical Reverse Characteristics

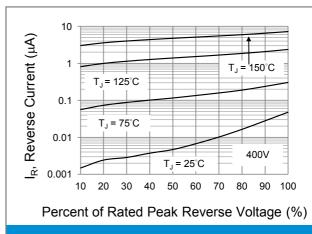


Fig.4 Typical Reverse Characteristics

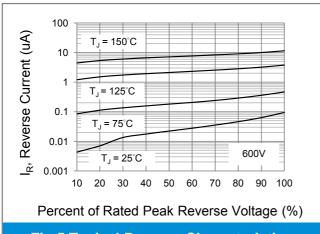


Fig.5 Typical Reverse Characteristics

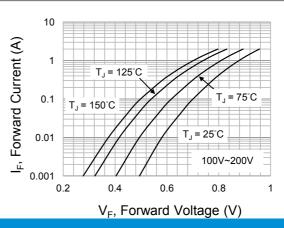


Fig.6 Typical Forward Characteristics





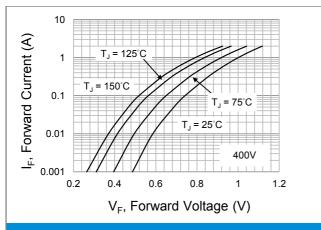


Fig.7 Typical Forward Characteristics

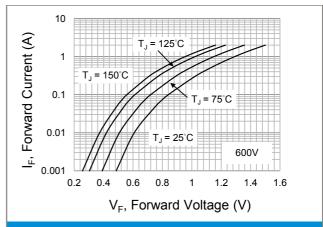
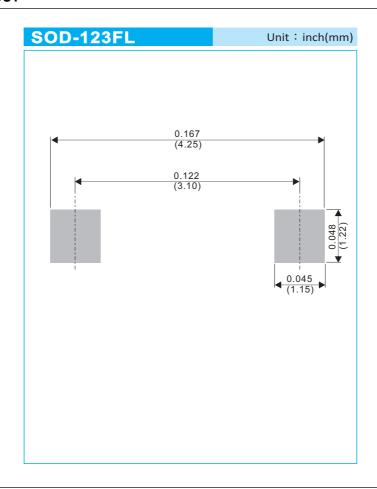


Fig.8 Typical Forward Characteristics





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

ES1001FL_R1_00001 ES1001FL_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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