

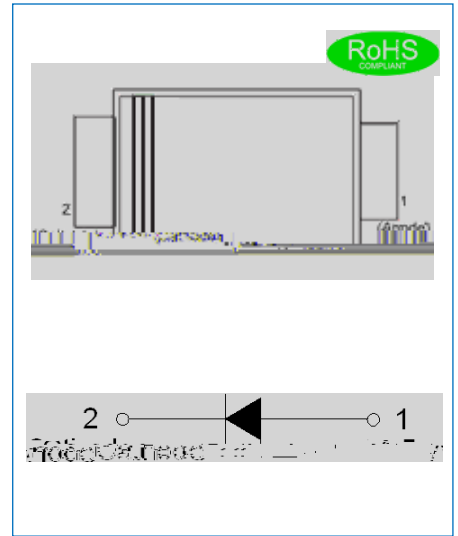


**ES1000FL~ES1010FL
SUPER FAST RECOVERY RECTIFIER**

Rev.4.0

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- For surface mounted applications in order to optimize board space
- Glass passivated chip junction
- Lead free in comply with EU RoHS 2011/65/EU directives
- Super fast recovery time



MECHANICAL DATA

- Case: SOD-123FL molded plastic
- Terminals: Solder plated, solderable per J-STD-002
- Polarity: Color band denotes cathode end
- Weight: 0.0144 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25 ambient temperature unless otherwise specified.)

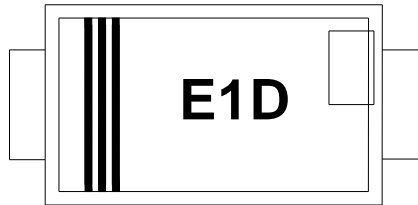
Parameter	Symbol	ES1000 FL	ES1001 FL	ES1002 I FL	4 FL
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THERMAL RESISTANCES

Symbol	Parameter	ES1000 FL	ES1001 FL	ES1002 FL	ES1004 FL	ES1006 FL	ES1010 FL	Unit
$R_{th(j-c)}$	Junction to case(note1)	25						/W

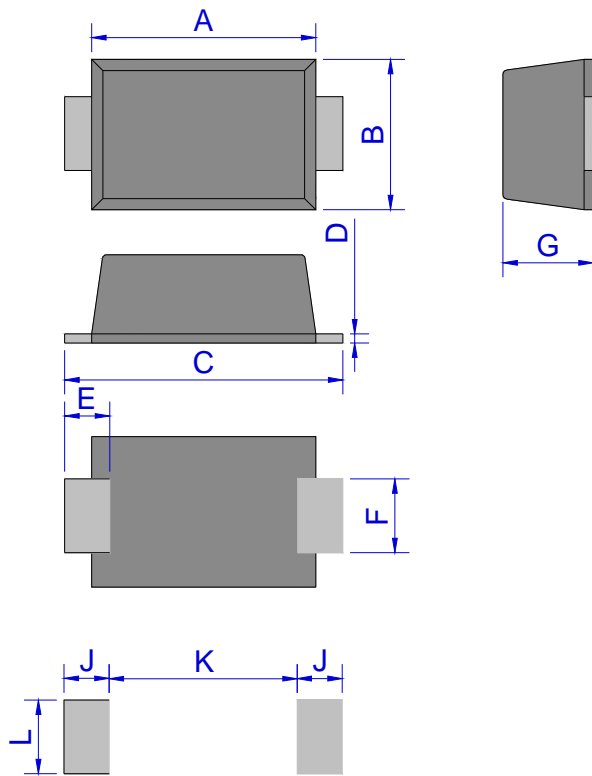
Note1: Thermal resistance from junction to case mounted on P.C.B. with 5.0 mm x 5.0 mm copper pad areas.

MARKING



E	Super Fast Recovery Rectifier
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PACKAGE MECHANICAL DATA



SOD-123FL

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.60	3.00	0.102	0.118
B	1.60	2.00	0.063	0.079
C	3.45	3.95	0.136	0.156
D	0.10	0.25	0.004	0.01
E	0.3	0.9	0.012	0.035
F	0.80	1.20	0.031	0.047
G	0.95	1.35	0.037	0.053
J	1.30		0.051	
K		1.70		0.067
L	1.30		0.051	

ES1000FL~ES1010FL

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics (25 °C)

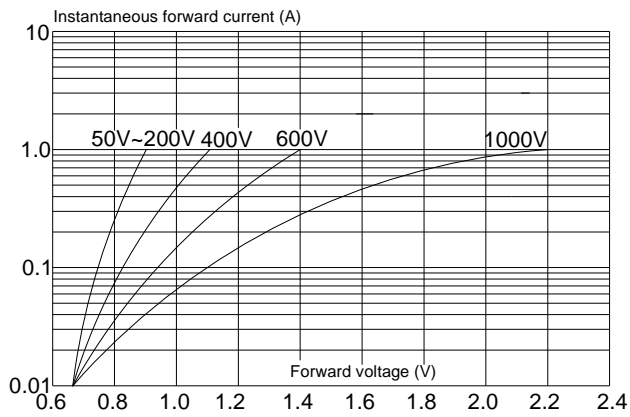


FIG.2: Typical reverse characteristics

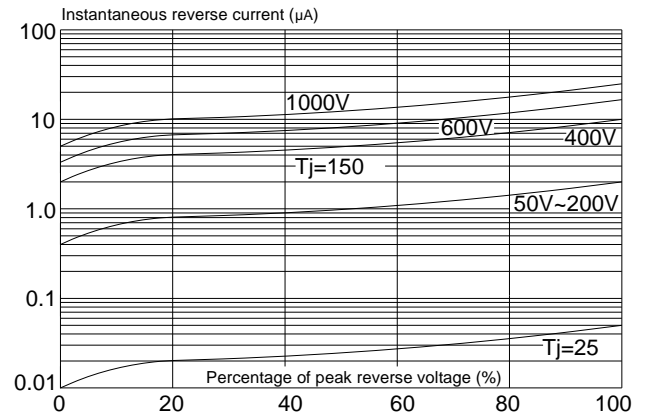


FIG.3: Maximum non-repetitive peak forward surge current

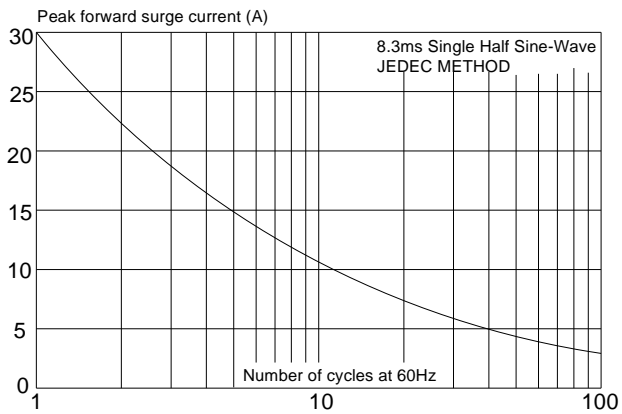
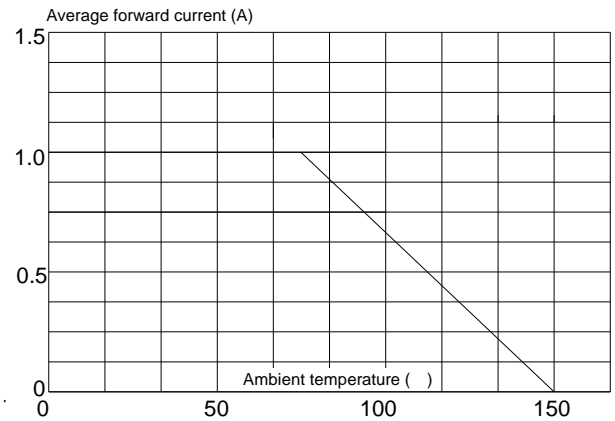


FIG.4: Forward current derating curve



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