

### Features

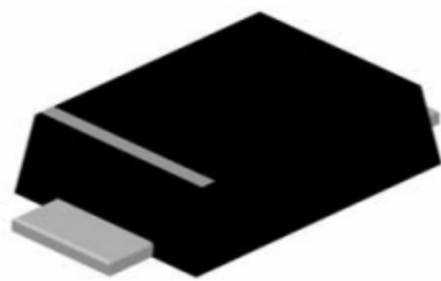
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Ultra thin profile package for space constrained utilization
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### Mechanical Data

- Case : SOD-123FL, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 ounces, 0.017 grams.
- Polarity : Color band denotes cathode end

### Dimensions and Pin Configuration

#### SOD123FL



**Marking: GR**

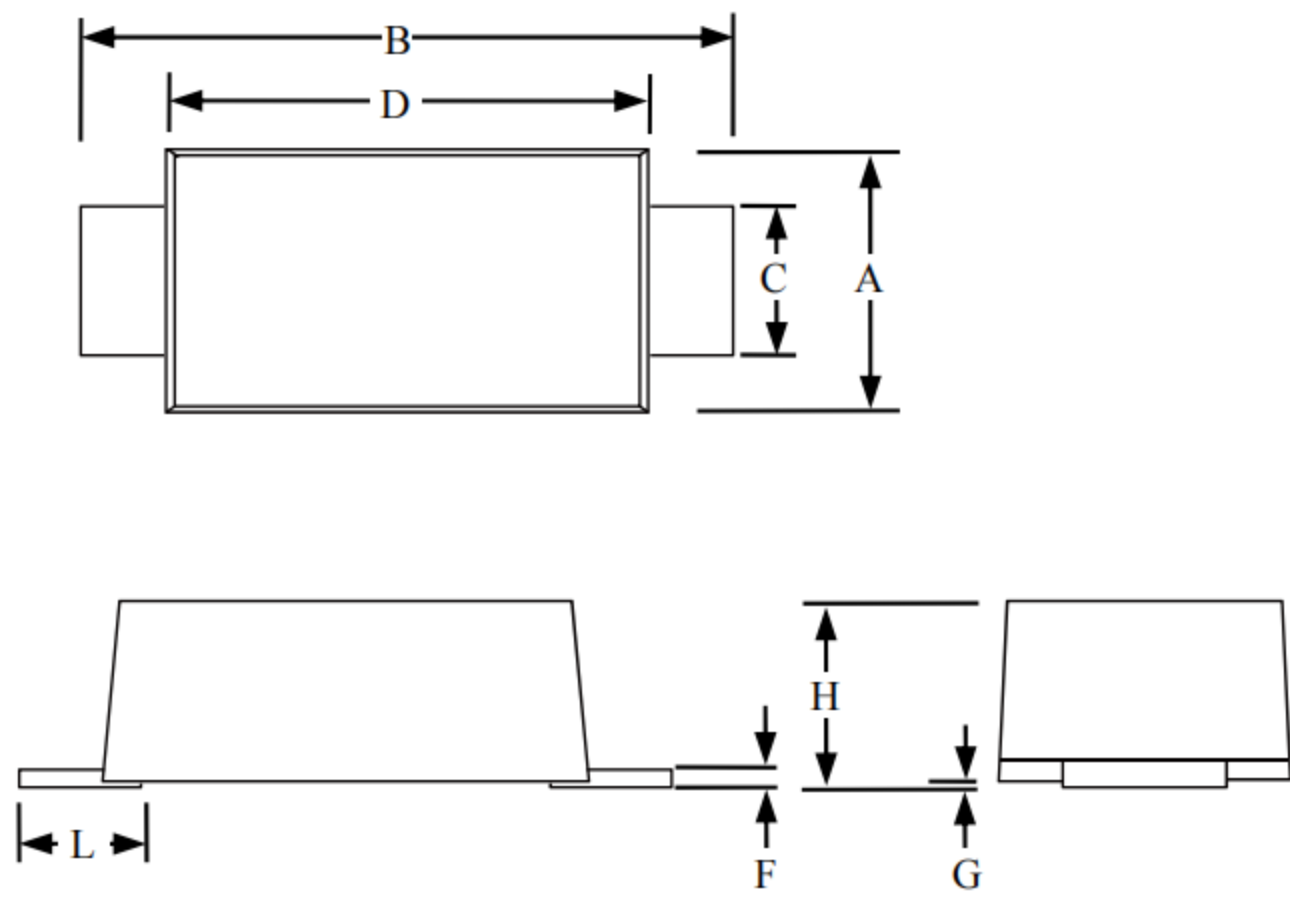
### Maximum Ratings & Thermal Characteristics

PARAMETER	SYMBOL	STPS2H100ZFY- TP	UNITS
Reverse Voltage	$V_R$	100	V
Peak Reversr Voltage	$V_{RRM}$	100	V
Average Rectified Current at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	2	A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	$I_{FSM}$	50	A

### Electrical Characteristics

PARAMETER	SYMBOL	STPS2H100ZFY- TP	UNITS
Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$	$V_R$	100	V
Maximum Forward Voltage at $I_F=2\text{A}$	$V_F$	0.85	V
Reverse Leakage Current at $V_{RRM}$	$I_R$	40	$\mu\text{A}$
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	60	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-50 to +150	$^\circ\text{C}$

**Package Outline Dimensions: SOD123FL**



SOD-123FL						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.059		0.079	1.5		2
B	0.134		0.154	3.4		3.9
C	0.028		0.047	0.7		1.2
D	0.098		0.114	2.5		2.9
F	0.002		0.01	0.05		0.26
G	-		0.004	-		0.1
H	0.037		0.053	0.95		1.35
L	0.014		0.035	0.35		0.9