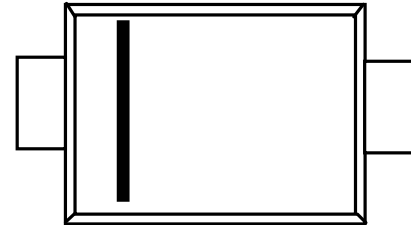


### »Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



SOD-123FL

### »General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOD-123FL Plastic Package

### » Maximum Ratings

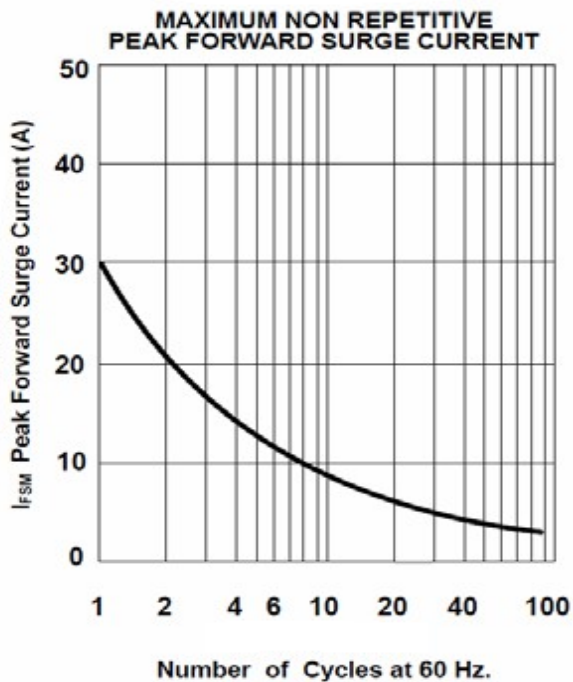
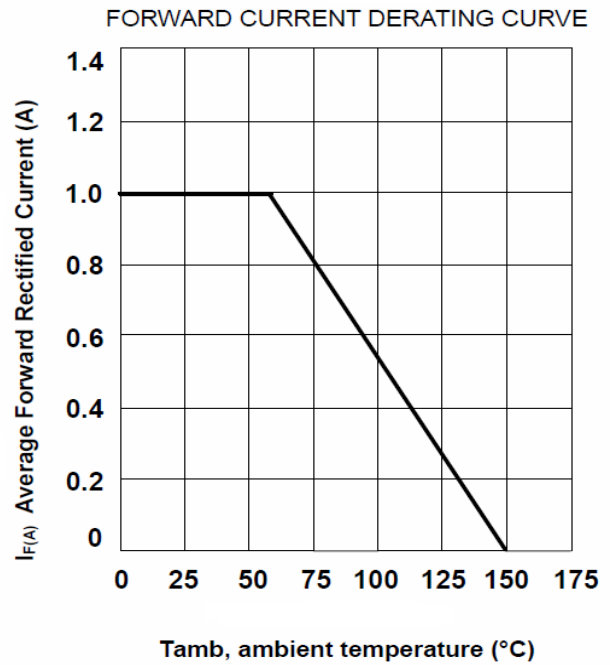
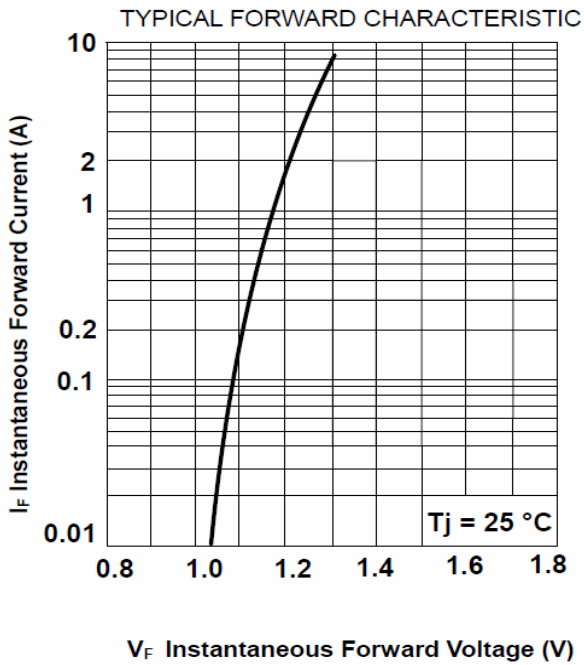
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameters	Symbol	F1M	Unit
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified current	IF(AV)	1.0	A
Non-repetitive Peak forward surge current 8.3 ms single half sine-wave	IFSM	30	A
Typical thermal resistance	RθJA	45	°C/W
Operation junction and Storage temperature range	Tj,TSTG	-55-+150	°C

### »Electrical Characteristics @TA=25°C unless otherwise noted

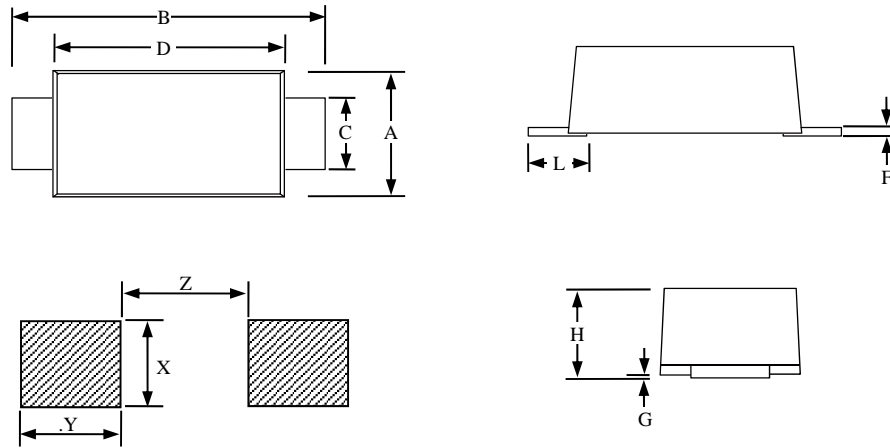
Parameters	Symbol	F1M	Unit
@IF=1.0A Max. forward voltage	VF	1.3	V
@VDC TA=25°C Max. reverse current TA=100°C	IR	5 100	uA
Max. reverse recover time IF=0.5A,IR=1.0A,IRR=0.25A	Trr	500	nS
VR=4.0V, f=1MHz Type junction capacitance	Cj	15	pF

»Typical Performance Characteristics ((T<sub>J</sub> = 25 °C, unless otherwise noted))



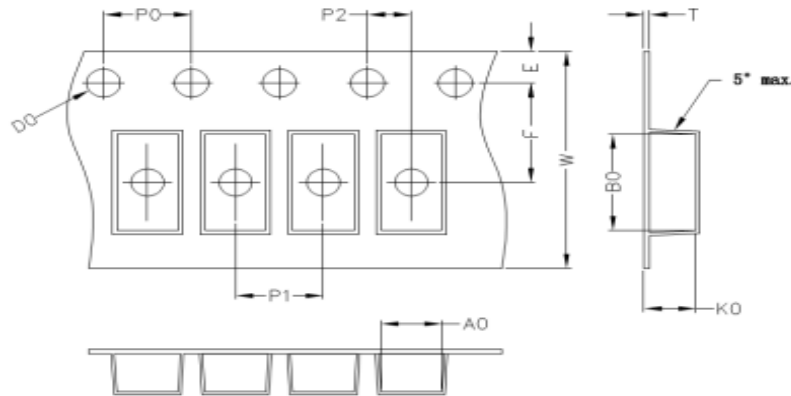
»Package Information

SOD-123FL



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
X		0.055			1.4	
Y		0.051			1.3	
Z		0.063			1.6	

»Carrier Dimension



All dimension in millimeter (mm)					
A0	B0	K0	D0	E	F
2.15	3.95	1.35	1.55	1.75	3.50
P0	P1	P2	T	W	Tolerance
4.0	4.0	2.0	0.25	8	0.1

»Ordering information

Order code	Package	Marking	Base qty	Delivery mode
F1M	SOD-123FL	F1M	3K	Tape and reel