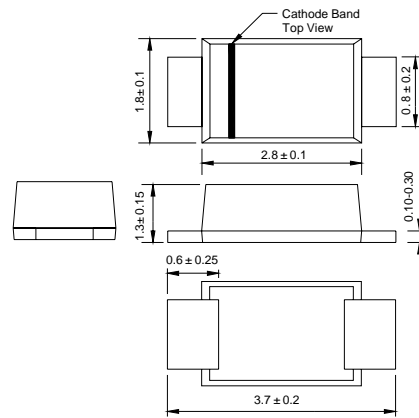




FR101 - FR107

SOD-123FL



Features

- Glass passivated junction.
- For surface mounted applications.
- Built in strain relief, ideal for automated placement.

1.0 Ampere Fast Recovery Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
I _O	Average Rectified Current @ T _A = 100°C	1.0	A
i _{f(surge)}	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	30	A
P _D	Total Device Dissipation Derate above 25°C	1.19	W
		9.5	mW/°C
R _{θJA}	Thermal Resistance, Junction to Ambient **	105	°C/W
R _{θJC}	Thermal Resistance, Junction to Case **	32	°C/W
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _J	Operating Junction Temperature	-55 to +150	°C

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

** Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Device							Units	
	F1	F2	F3	F4	F5	F6	F7		
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V	
Maximum Reverse Current @ rated V _R								5.0	μA
								T _A = 125°C	50
Maximum Forward Voltage @ 1.0 A								1.3	V
Maximum Reverse Recovery Time I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A	150			250		500		nS	
Typical Junction Capacitance V _R = 4.0 V, f = 1.0 MHz	10							pF	



Typical Characteristics

