

Features

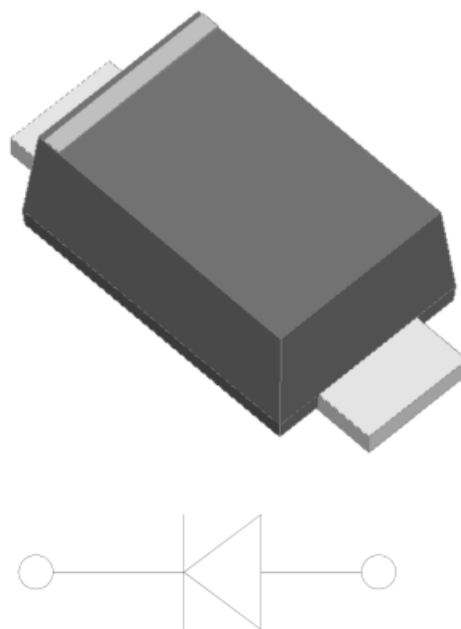
- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Switching for general purpose
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in general purpose switching rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

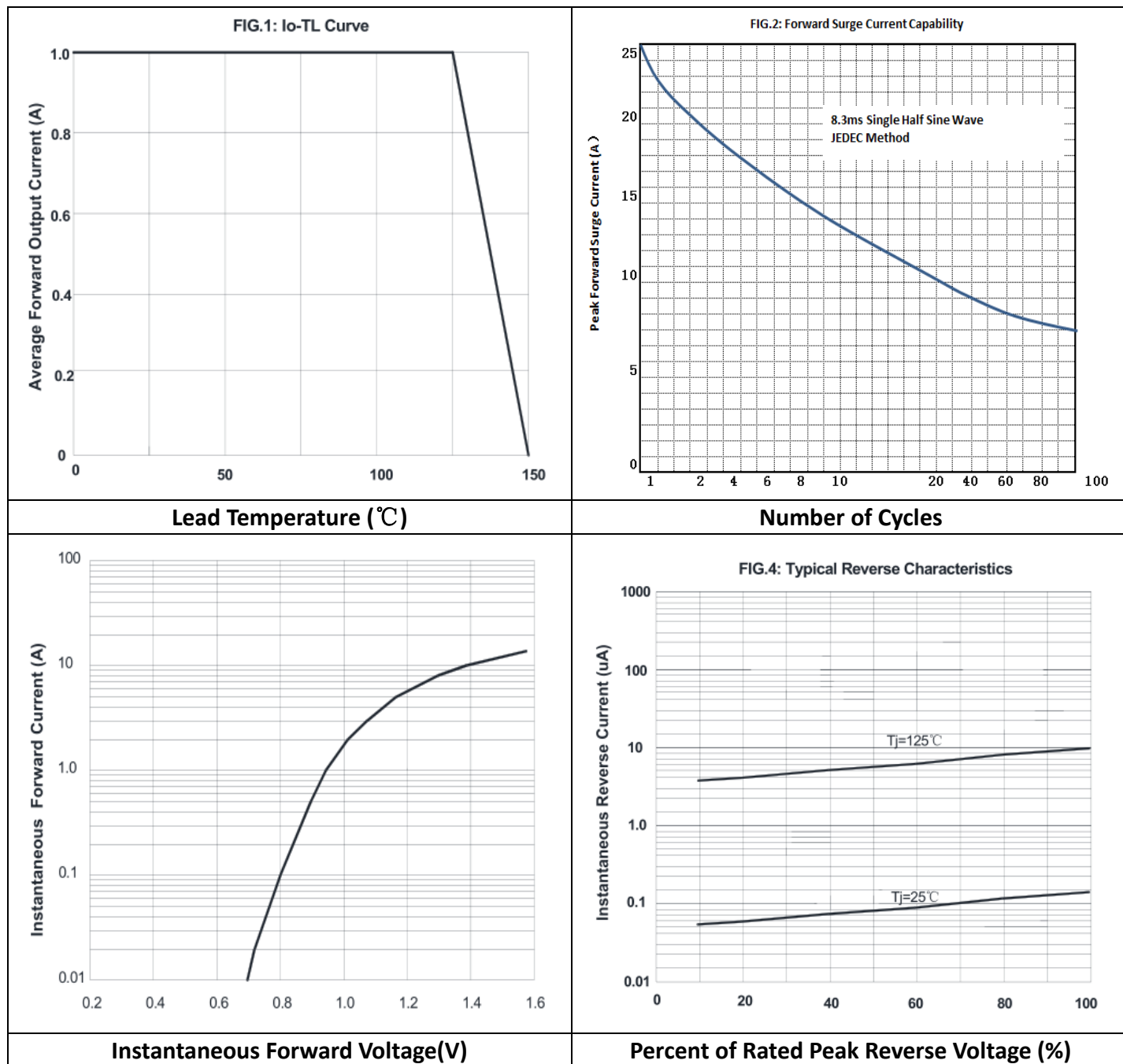
- Package: SOD-123FL
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	A1	A2	A3	A4	A5	A6	A7
Alternate Name			G1A	G1B	G1D	G1G	G1J	G1K	G1M
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	IO	A	1.0						
Forward Surge Current (Non-repetitive)@60Hz Half-sine wave,1 cycle, Tj=25℃	IFSM	A	25						
Storage temperature	Tstg	℃	-55 ~ +125						
Junction temperature	Tj	℃	-55 ~ +125		-55 ~ +150				
Maximum instantaneous forward voltage drop per diode	VF (IFM=1.0A)	V	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IR (Tj =25℃)	μ A	5						
	IR (Tj =100℃)		100						

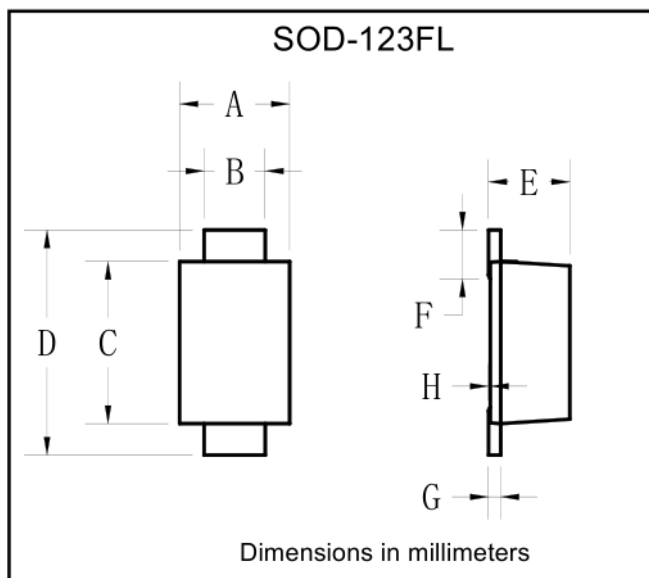
Characteristics (Typical)



Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
A1-A7 G1A-G1M (SOD-123FL)	T/B	3000	24000	240000	7" reel
		10000	30000	300000	13" reel

Outline Dimensions



SOD-123FL		
Dim	Min	Max
A	1.60	1.90
B	0.90	1.10
C	2.55	2.85
D	3.60	3.90
E	1.00	1.20
F	0.40	0.90
G	0.10	0.25
H	0.02	0.05