

SOD-123-FL K12-K120





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K12 (S12) THRU K120 (S120)

Surface Mount General Purpose Rectifier

Essential information; basic information

Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

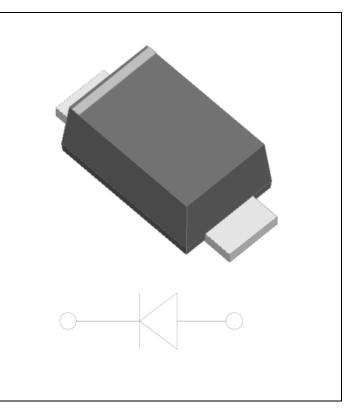
Mechanical Data

Package: SOD-123FL

Molding compound meets UL 94 V-0 flammabilityrating, RoHS-compliant

● Terminals: Tin plated leads, solderable perJ-STD-002 and JESD22-B102

Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25 $^{\circ}$ C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S12	S14	S16	S18	S110	S115	S120
Alternate Name	SYMBOL		K12	K14	K16	K18	K110	K115	K120
Maximum Repetitive peak reverse voltage	VRRM	٧	20	40	60	80	100	150	200
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	Ю	Α	1.0						
Forward Surge Current (Non-repetitive)@60Hz Half-sine wave,1 cycle, Tj=25℃	IFSM	А	25						
Storage temperature	Tstg	$^{\circ}$	-55 ~ +125						
Junction temperature	Tj	$^{\circ}\mathbb{C}$	-55 ~ +125 -55 ~ +150						
Maximum instantaneous forward voltage drop per diode	VF (IFM=1.0A)	V	0	.6	0.7	0	.85	().9
Maximum DC reverse current at rated DC blocking voltage per diode	IR (Tj =25℃)	mΛ	0.5			0.1			
@VRM=VRRM	IR (Tj =100°C)	mA	10			5			



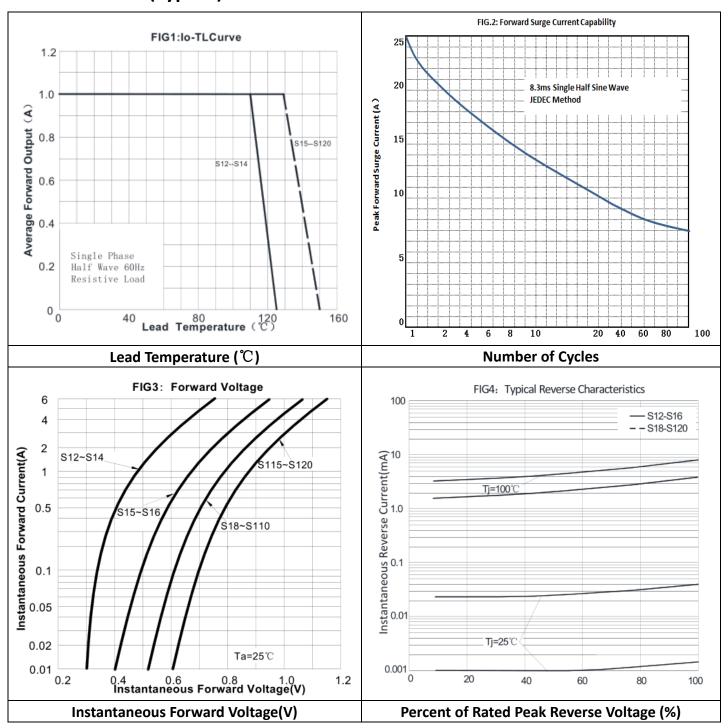
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Characteristics (Typical)





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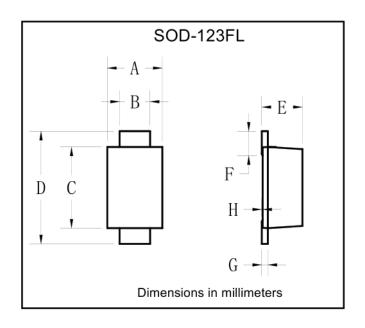


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Ordering Information (Example)

type specification	manner of	MINIMUM	INNER BOX	OUTER CARTON	DELIVERY
	packin	PACKAGE(pcs)	QUANTITY(pcs)	QUANTITY(pcs)	MODE
S12-S120		3000	24000	240000	7" reel
K12-K120 (SOD-123FL)	T/B	10000	30000	300000	13" reel

Outline Dimensions



SOD-123FL					
Dim	Min	Max			
Α	1.60	1.90			
В	0.90	1.10			
С	2.55	2.85			
D	3.60	3.90			
E	1.00	1.20			
F	0.40	0.90			
G	0.10	0.25			
Н	0.02	0.05			

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