K12 THUR K120 Schottky Barrier Rectifiers

General description

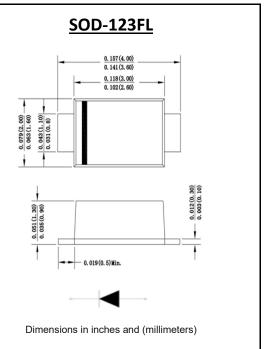
1.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
- 250 C/10 seconds at terminals

Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body



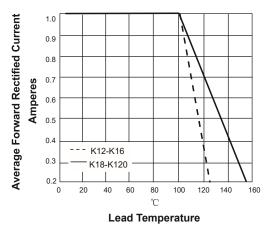
Maximum Ratings And Electrical Characteristics

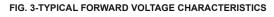
Parameter	SYMBOLS	K12	K14	K16	K18	K110	K115	K120	UNITS
Marking Code		K12	K14	K16	K18	K110	K115	K120	N/A
Maximum repetitive peak reverse voltage		20	40	60	80	100	150	200	V
Maximum RMS voltage	Vrms	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	Vdc	20	40	60	80	100	150	200	V
Maximum average forward rectified current at TL=100°C	l(av)	1.0						А	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	lfsm	30.0					А		
Maximum instantaneous forward voltage at 1.0A	Vf	0.	55	0.70	0.85		0.	0.95	
Maximum DC reverse current $T_A = 25 \text{ C}$ at rated DC blocking voltage $T_A = 125 \text{ C}$	lr		0.5 50	1	0.05			mA	
Typical thermal resistance	Rqja		85.0				°C/M		
Operating junction temperature range	ТJ	-55 to +125 -55 to +150			ъ				
Storage temperature range	Тѕтс	-55 to +150				οC			



Rating And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT





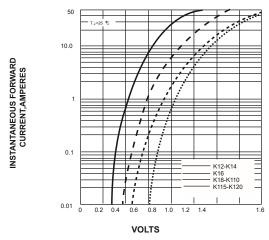


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

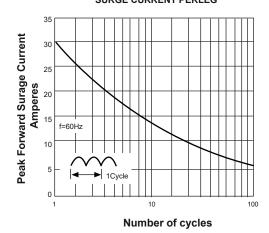
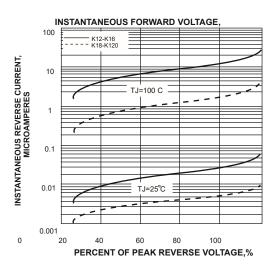
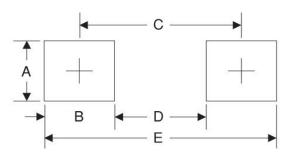


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



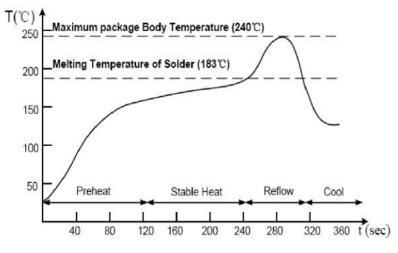
Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)		
А	1.2	0.048		
В	1.15	0.045		
С	3.10	0.122		
D	1.95	0.077		
E	4.25	0.167		



Suggested Soldering Temperature Profile

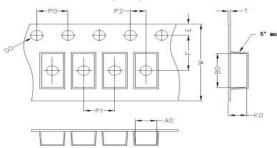


Note

- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- ← The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Package Information

Carrier Dimension(mm)



A0	В0	К0	D0	Е	F	
2.15	3.95	1.35	1.55	1.75	3.50	
P0	P1	P2	т	w	Tolerance	
4.0	4.0	2.0	0.25	8	0.1	

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
SOD123FL	7'	178	3	180	15	380*200*200	150



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