

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

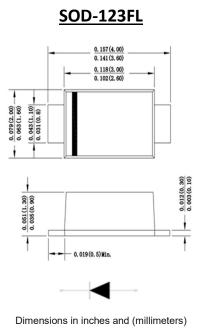
Mechanical Data

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
Maximum repetitive peak reverse voltage		20	40	60	80	100	150	200	V
Maximum RMS voltage		14	28	42	56	70	105	140	V
Maximum DC blocking voltage		20	40	60	80	100	150	200	V
Maximum average forward rectified current at T∟=100°C	l(AV)	1.0					А		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	İfsm	30.0						А	
Maximum instantaneous forward voltage at 1.0A	VF	0.55 0.70		0.	0.85		0.95		
Maximum DC reverse current T = 25 C at rated DC blocking voltage T= 125 C	lr	0.5 50 0.05 10			mA				
Typical thermal resistance	RqJA	85.0					。C/W		
Operating junction temperature range	TJ	-55 to +125 -55 to +150				。C			
Storage temperature range	Тѕтс	-55 to +150				°C			

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Rating And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

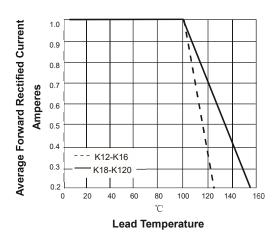


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

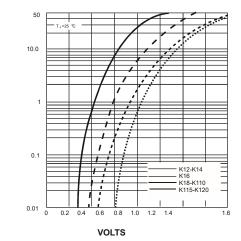


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

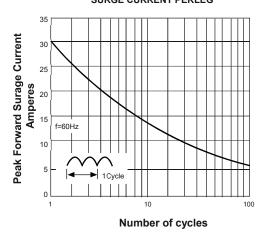
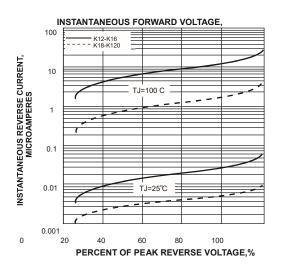
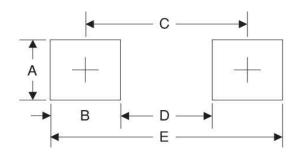


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Suggested Pad Layout

INSTANTANEOUS FORWARD CURRENT, AMPERES

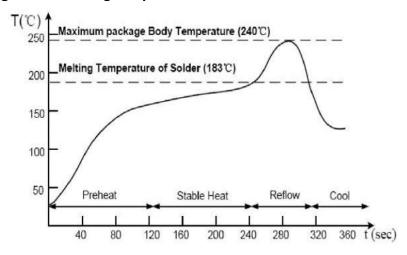


Symbol	Unit (mm)	Unit (inch)
Α	1.2	0.048
В	1.15	0.045
С	3.10	0.122
D	1.95	0.077
E	4.25	0.167

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Suggested Soldering Temperature Profile

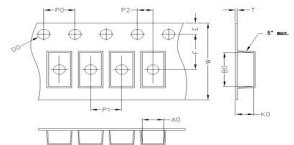


Note

- → 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	K0	D0	E	F	
2.15	3.95	1.35	1.55	1.75	3.50	
P0	P1	P2	Т	W	Tolerance	

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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