

K22 THUR K220 Schottky Barrier Rectifiers

General description

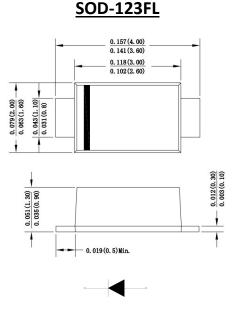
2.0Amp Surface Mounted Schottky Barrier Rectifiers

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 Mounting Position: Any
- Weight : 0.0007 ounce, 0.02 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Parameter		K22	K24	K26	K28	K210	K215	K220	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℃	l(AV)	2.0					А		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	50.0						А	
Maximum instantaneous forward voltage at 2.0A	Vf	0.55 0.70		0.85		0.95		V	
Maximum DC reverse currentT $_{A}$ = 25 °Cat rated DC blocking voltageT $_{A}$ = 125 °C	lr	0.5 0.05 50 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			



Rating And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

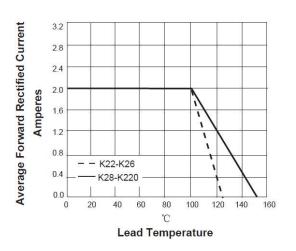
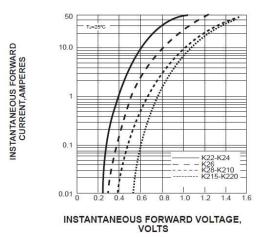
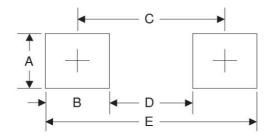


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS



Suggested Pad Layout



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

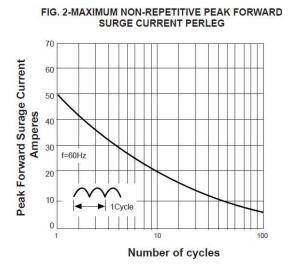
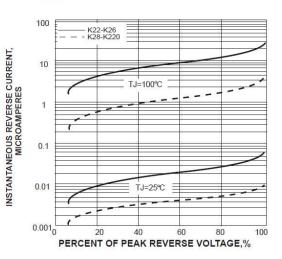
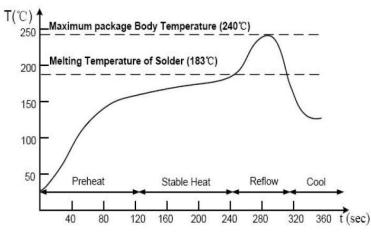


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





Suggested Soldering Temperature Profile

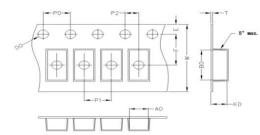


Note

- ← 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	B0	K0	D0	E	F
2.15	3.9 <mark>5</mark>	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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