

### **K22 THUR K220 Schottky Barrier Rectifiers**

### **General description**

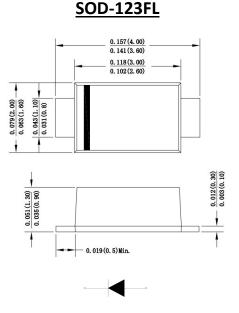
2.0Amp Surface Mounted Schottky Barrier Rectifiers

#### **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)

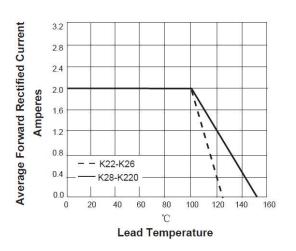
#### Maximum Ratings And Electrical Characteristics

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			

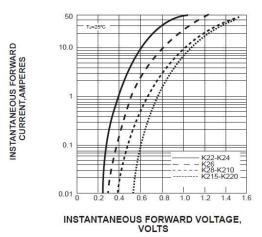


#### **Rating And Characteristic Curves**

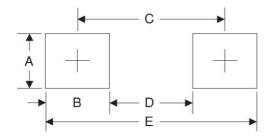
FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT



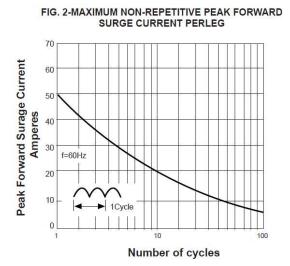
#### FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS



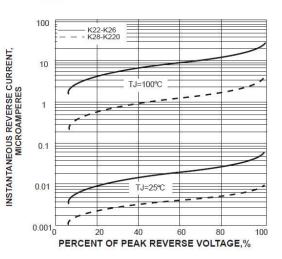
#### Suggested Pad Layout



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		

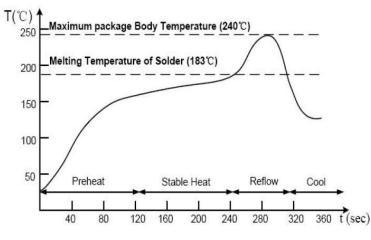


#### FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





#### Suggested Soldering Temperature Profile

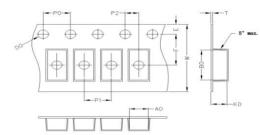


#### Note

- ← 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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