# **K22 THUR K220**



# 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.

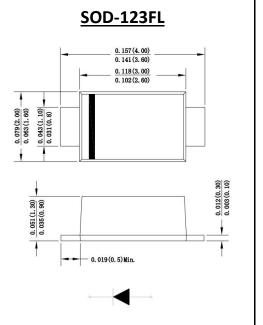
#### **MECHANICAL DATA**

- · 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	SYMBOLS	K22	K24	K26	K28	K210	K215	K220	UNITS
Marking Code		K22	K24	K26	K28	K210	K215	K220	N/A
Maximum repetitive peak reverse voltage		20	40	60	80	100	150	200	٧
Maximum RMS voltage		14	28	42	56	70	105	140	٧
Maximum DC blocking voltage		20	40	60	80	100	150	200	V
Maximum average forward rectified current at T∟=100°C	l(AV)	2.0							А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Ігѕм	50.0						Α	
Maximum instantaneous forward voltage at 2.0A	VF	0.55 0.70		0.	0.85		95	V	
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=125^{\circ}C$	lR	0.5 50 0.05 10			mA				
Typical thermal resistance	RqJA	85.0					°C/W		
Operating junction temperature range	Тл	-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

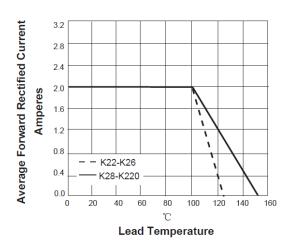


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

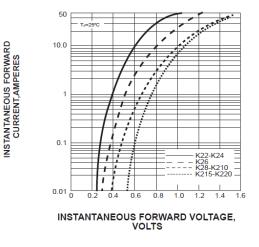


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

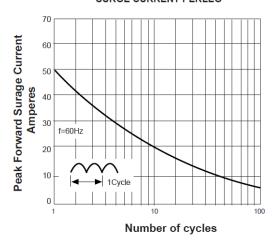
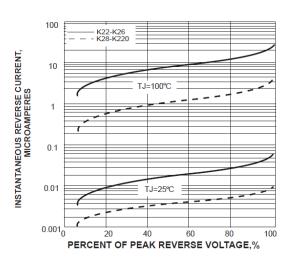
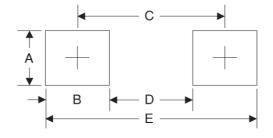


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



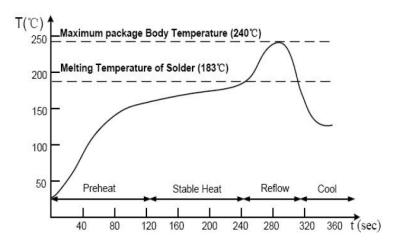
#### **Suggested Pad Layout**



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		



## **Suggested Soldering Temperature Profile**

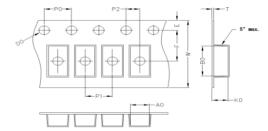


#### Note

- ◆ 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)



Α0	В0	K0	D0	E	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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