

K32 THUR K320 Schottky Barrier Rectifiers

General description

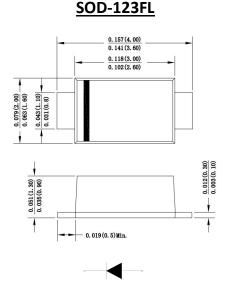
3.0Amp Surface Mounted Schottky Barrier Rectifiers

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		K32	K34	K36	K38	K310	K315	K320	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)	3.0					А		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Іғѕм	70.0						A	
Maximum instantaneous forward voltage at 2.0A	Vf	0.	55	0.70	0.85		0.95		V
$\begin{array}{llllllllllllllllllllllllllllllllllll$	lr		0.5 50	I	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		

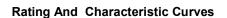


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

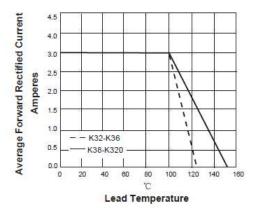


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

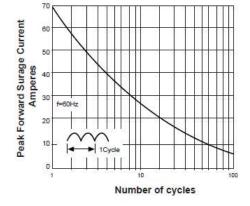
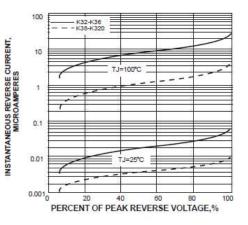
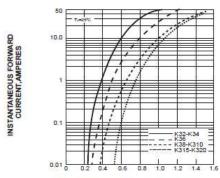
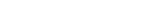


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

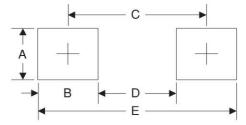




INSTANTANEOUS FORWARD VOLTAGE, VOLTS



Suggested Pad Layout

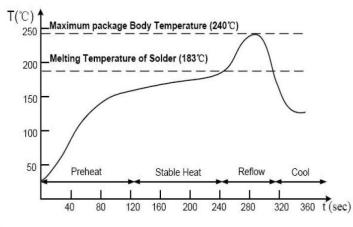


Symbol	Unit (mm)	Unit (inch)		
A	1.2	0.048		
B	1.15	0.045		
С	3.10	0.122		
D	1.95	0.077		
E	4.25	0.167		

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



Suggested Soldering Temperature Profile

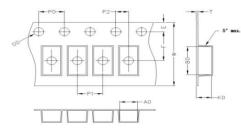


Note

- 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)			Q'TY/Carton (Kpcs)	
SOD123FL	7'	178	3	180	15	380*200*200	150	



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