K32 THUR K320

Schottky Barrier Rectifiers

General description

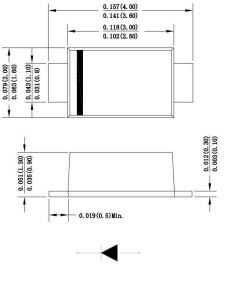
3.0Amp Surface Mounted Schottky Barrier Rectifiers

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	SYMBOLS	K32	K34	K36	K38	K310	K315	K320	UNITS
Marking Code		K32	K34	K36	K38	K310	K315	K320	N/A
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					A		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	70.0					A		
Maximum instantaneous forward voltage at 2.0A	Vf	0.	0.55 0.70 0		0.	85	0.	95	V
Maximum DC reverse currentT $_{A}$ = 25°Cat rated DC blocking voltageT $_{A}$ = 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

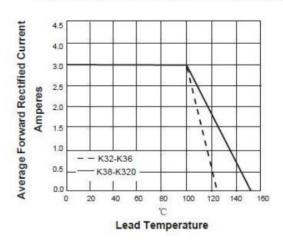


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

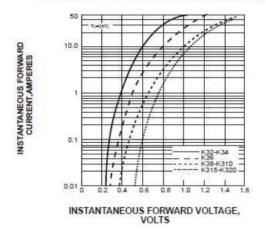


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

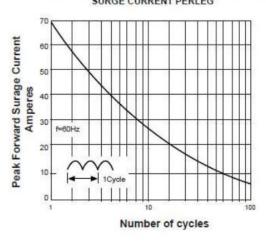
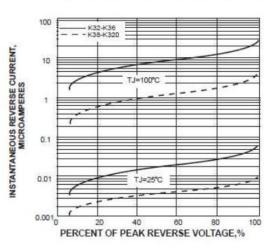
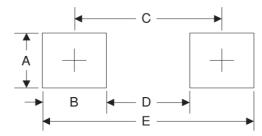


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



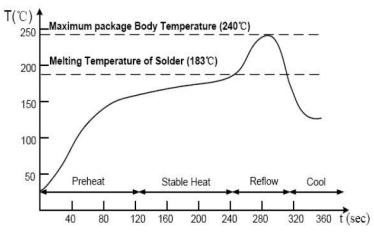
Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
А	1.2	0.048
В	1.15	0.045
С	3.10	0.122
D	1.95	0.077
E	4.25	0. <mark>1</mark> 67



Suggested Soldering Temperature Profile

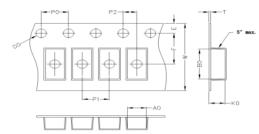


Note

- 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	K 0	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	age Reel Size Reel I (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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