

KBU8005 THRU KBU810

KBU 8.0 AMP Plastic-Encapsulate Bridge Rectifier

KBU Plastic-Encapsulate Bridge Rectifier

Features

- Ideal for printed circuit board
- Small size, simple installation
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260/10 seconds at 5lbs., (2.3kg) tension

Applications

General purpose 1 phase Bridgerectifier applications

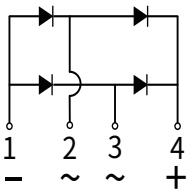
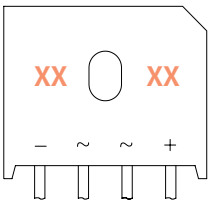
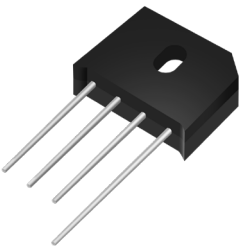
Mechanical Data

- Case: KBU
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

Function Diagram

Reverse Voltage
50-1000 V
Forward Current
8.0 Ampere

KBU



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810
Device marking code			KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load, TL (Fig.1)	$I_{F(AV)}$	A	8.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	200						
Rating for fusing (t=8.3ms, Ta=25 °C)	I^2t	A ² S	166						
Storage temperature	T_{stg}	°C	-55 ~ +150						
Junction temperature	T_j	°C	-55 ~ +150						
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	26						
	$R_{\theta J-C}$	°C /W	2.3						

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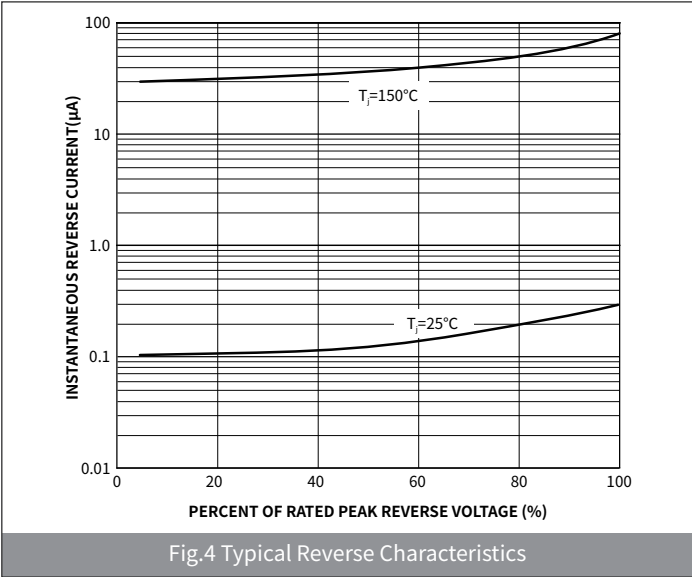
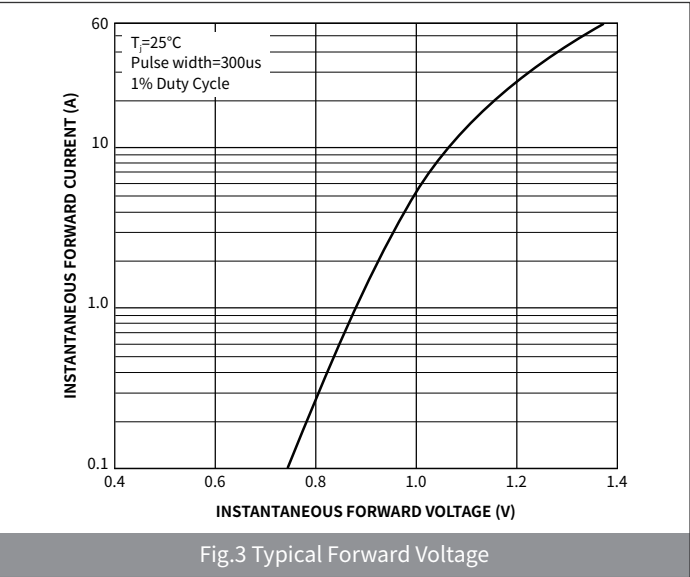
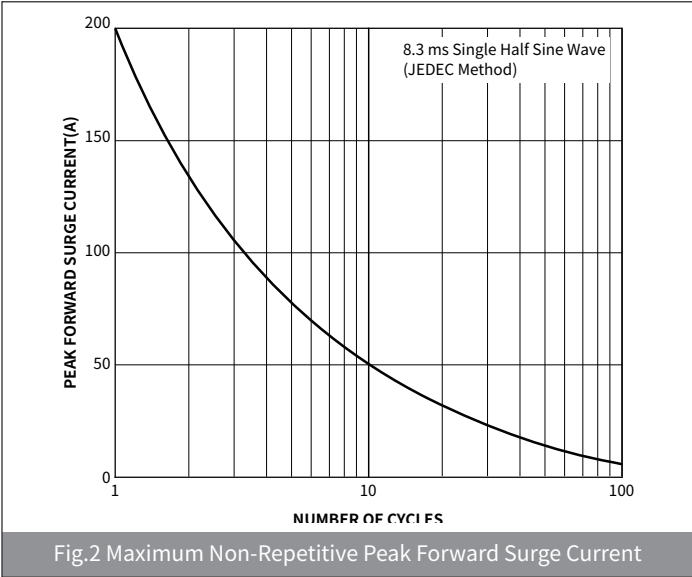
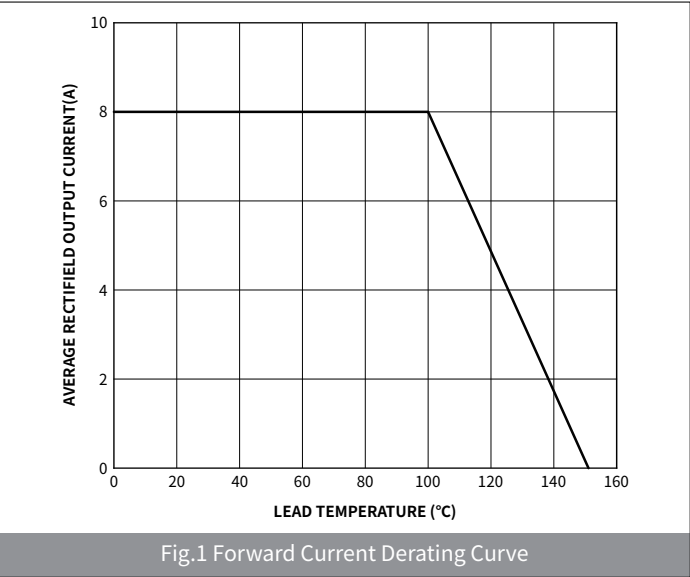
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Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810
Maximum instantaneous forward voltage	$I_F=4.0A$	V_F	V	1.1						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^{\circ}C$	I_{R1}	μA	10						
	$V_R=V_{DC}, T_A=100^{\circ}C$	I_{R2}		300						
Typical junction capacitance	4.0V DC, 1MHz	C_J	pF	250						

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



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● Ordering Information

PACKAGE	UNIT WEIGHT(g)	BOX(pcs)	CARTON(pcs)
KBU	6.47	400	2400

● Package Outline Dimensions (KBU)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	22.70	23.70	0.895	0.935
B	18.80	19.80	0.740	0.780
C	16.80	17.80	0.067	0.083
D	20.00	-	0.787	-
E	6.80	7.10	0.268	0.280
F	2.10	2.20	0.082	0.086
G	-	8.2	-	0.323
e	4.60	5.60	0.180	0.220
f	1.20	1.30	0.048	0.052

