

# <u>/.</u>

KBJ4005	/ thru	KBJ410V
	Bridae	e Rectifiers

<u>KB.</u>	J	

Primary characteristics					
I <sub>F(AV)</sub>	4.0A				
V <sub>RRM</sub>	50V to 1000V				
I <sub>FSM</sub>	150A				
I <sub>RM</sub>	5uA				
V <sub>FM</sub> at I <sub>F</sub> =2.0	1.0				
$T_J$ max.	150 °C				

F	eatures
•	ROHS compliant
•	Glass passivated chip PB
•	High forward surge capability
•	Meet MSL level 1, per J-STD-020
	LF maximum peak of 250 °C
Ð	Solder dip 260 °C / 40S
•	Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
•	UL recognition, file number E342874
A	pplications
ld	leal for ac-to-dc bridge full wave rectification suck as

SMPS, home applianes, office equipment, indusrial

automation applicatios

## **Mechanical data**

• Case: KBJ

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- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

## Maximum rating (Ta=25°C unless otherwise noted)

Parameter			KBJ							
		Sym	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	Unit
			4005V	401V	402V	404V	406V	408V	410V	
Max. repetitive peak reverse voltage		Vrrm	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Max. DC blocking voltage		VDC	50	100	200	400	600	800	1000	V
Max. average forward current		I <sub>F(AV)</sub>	4.0						А	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I <sub>FSM</sub>	150						А	
Rating for fusing,1ms $\leq$ t $\leq$ 8.3ms		l <sup>2</sup> t	93					A <sup>2</sup> S		
Max. instantaneous forward voltage drop per diode		VFM	1.0 (2.0)					V		
Max. instantaneous reverse current at	Ta=25 ⁰C		5							μA
rated DC blocking voltage	Ta=125 ⁰C	IRM	250							μA
Operating junction temperature		TJ			-55	~ +15	C			°C
Storage temperature		T <sub>STG</sub>			-55	~ +15	0			°C
Typical thermal resistance (Note2,1)		R J-A	26						°C/W	
		R J-C	5						°C/W	

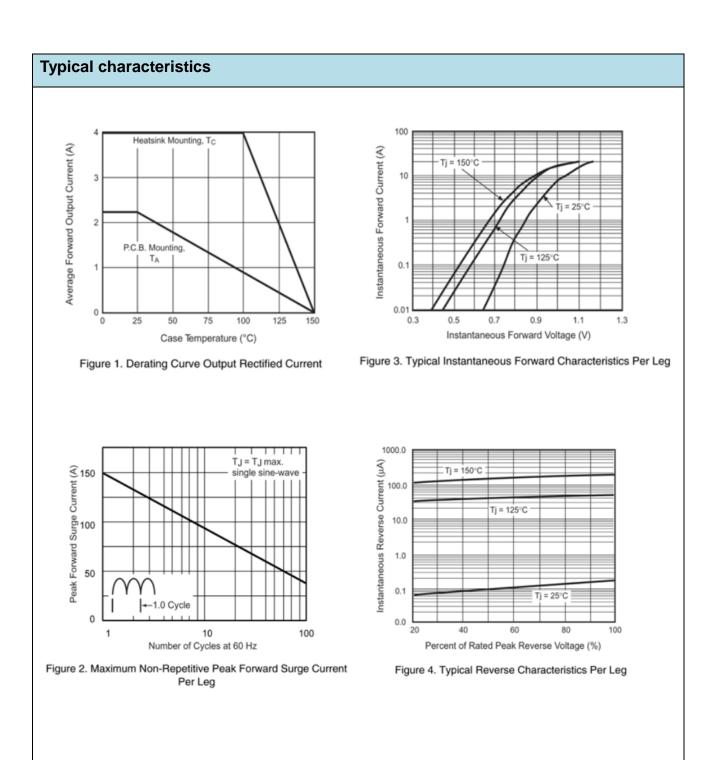
#### Notes

(1) Unit case mounted on 6.3x6.3x0.15cm thick AI plate heatsink

(2) Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13 mm) copper pads and 0.375" (9.5 mm) lead length

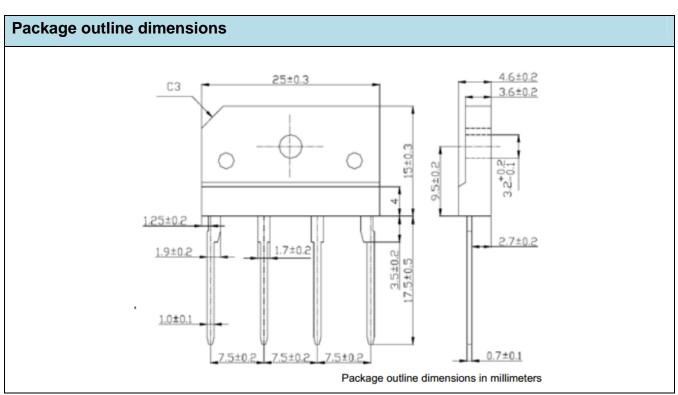


Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
KBJ410V							





## KBJ4005V thru KBJ410V. Bridge Rectifiers



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