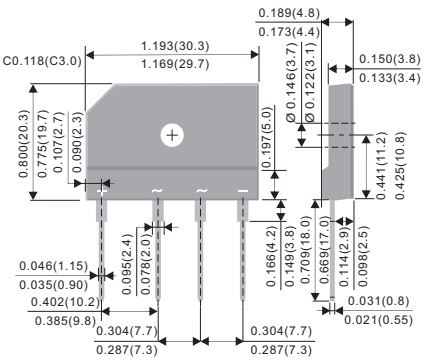
KBJ1504~KBJ1510

Glass Passivated Bridge Rectifiers

VOLTAGE 400 to 1000 Volt **CURRENT** 15 Ampere

KBJ Unit: Inch(mm)



FEATURES

- •UL Recognized File #E228882
- •Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- • Ideal for printed circuit board
- • Reliable low cost construction utilizing molded plastic technique.
- • Lead free in compliance with EU RoHS 2.0
- • Glass passivated chip junction

MECHANICAL DATA

- • Case: KBJ
- •Terminals: Leads solderable per MIL-STD-750, Method 2026
- • Polarity: As marked on body
- • Mounting torque: 8.5 inch-lbs. Max.
- • Weight: 6.96g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBJ 1504	KBJ 1506	KBJ 1508	KBJ 1510	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	15				A
Peak forward surge current, 8.3 ms single half sine-wave	I_{FSM}	240				A
Rating of fusing (t<8.3ms) (Note 1)	I^2t	239				A^2s
Maximum instantaneous forward voltage per diode I_F = 7.5 A I_F = 15 A	V_F	1 1.1				V
Maximum reverse current @ rated V_R T_J =25°C	I_R	5				μA
T_J =125°C		500				
Typical junction capacitance (Note 2)	C_J	79				pF
Typical thermal resistance (Note 3) (Note 4)	$R_{\theta JA}$ $R_{\theta JC}$	22 1.4				°C/W
Operating junction temperature range	T_J	- 55 to +150				°C
Storage temperature range	T_{STG}	- 55 to +150				°C

Note 1: Non-repetitive, for t＞1ms and＜8.3ms.

Note 2: Measured at 1MHz and applied Reverse bias of 4V DC

Note 3: Products installed on the PCB, Without heatsink。

Note 4: Products installed on aluminum plate heatsink。

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TYPICAL CHARACTERISTIC CURVES

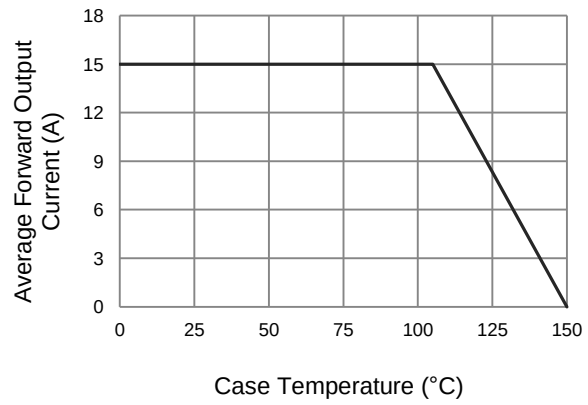


Fig.1 Forward Current Derating Curve

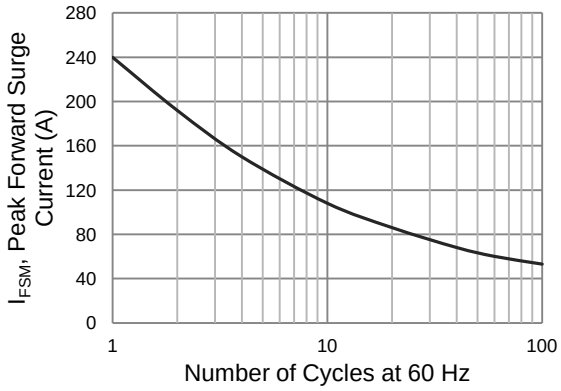


Fig.2 Maximum Forward Surge Current

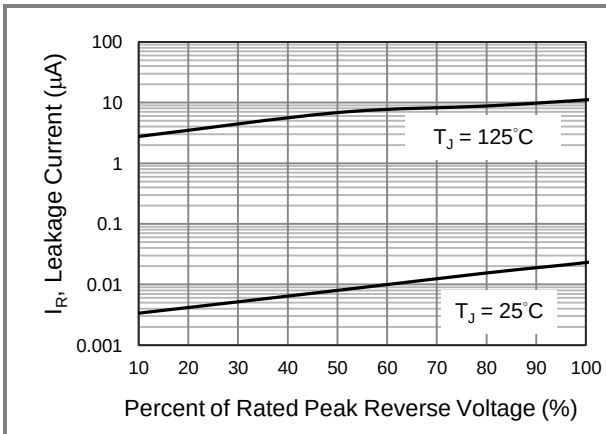


Fig.3 Typical Reverse Characteristics

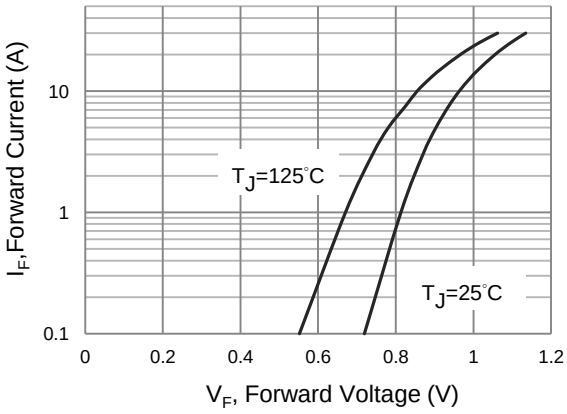


Fig.4 Typical Forward Characteristics

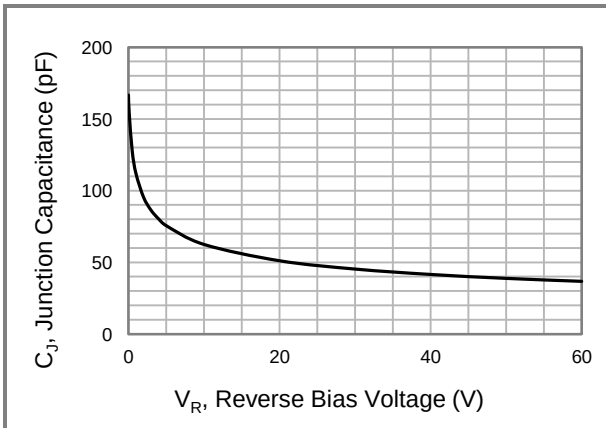


Fig.5 Typical Junction Capacitance

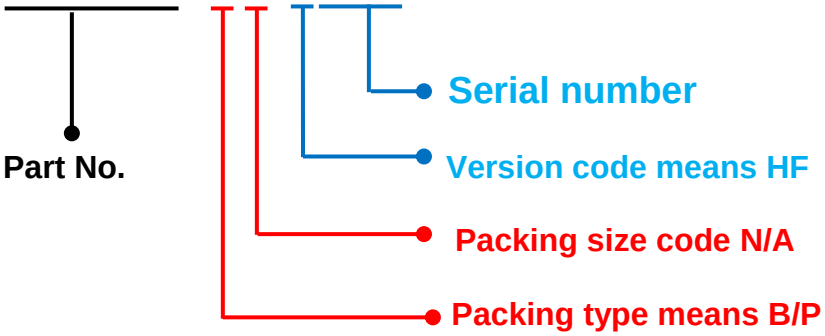
KBJ1504~KBJ1510

Part No_packing code_Version

KBJ1504_B0_00001
KBJ1504_B0_10001

For example :

KBJ1504_B0_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2stCode	HF or RoHS	1st Code	2st ~5st Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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