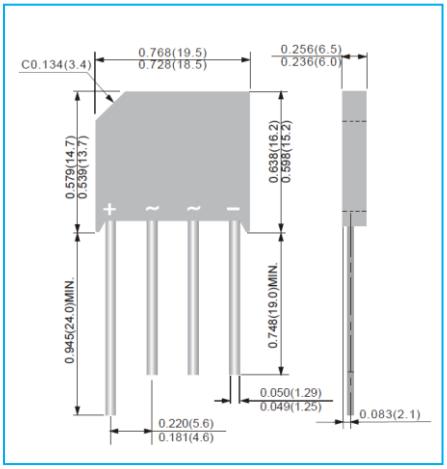
KBL404~KBL410

Glass Passivated Bridge Rectifiers

VOLTAGE 400 to 1000 Volt **CURRENT** 4 Ampere **FL/KBL** **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 RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Glass passivated chip junction

MECHANICAL DATA

- Case: FL/KBL
- Terminals: Leads solderable per MIL-STD-750, Method 2026
- Polarity: As marked on body
- Weight: 5.4g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBL 404	KBL 406	KBL 408	KBL 410	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	$I_{F(AV)}$	4				A
Peak forward surge current, 8.3 ms single half sine-wave	I_{FSM}	150				A
Rating of fusing (t<8.3ms)(Note1)	I^2t	93				A^2s
Maximum instantaneous forward voltage per diode I_F = 2 A I_F = 4 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	40				pF
Typical thermal resistance (Note 3) (Note 4)	$R_{\theta JA}$ $R_{\theta JL}$	19 2.4				°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: Thermal resistance from junction to ambient with units mounted on aluminum plate heatsink
Note4: Thermal resistance from junction to lead with units mounted on PCB

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TYPICAL CHARACTERISTIC CURVES

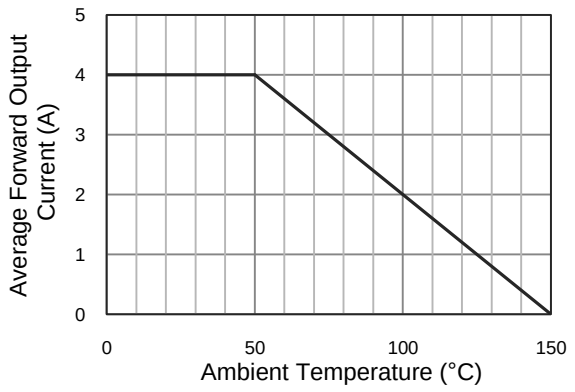

Fig.1 Forward Current Derating Curve

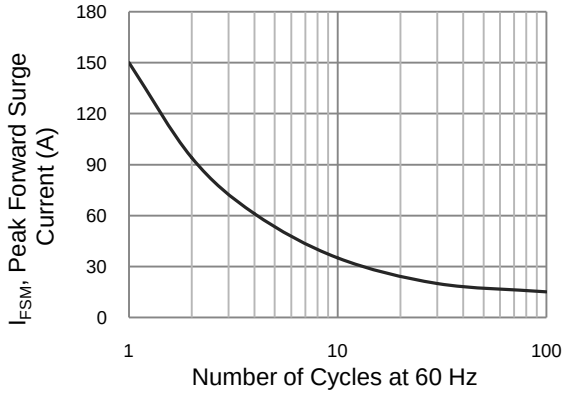

Fig.2 Maximum Forward Surge Current

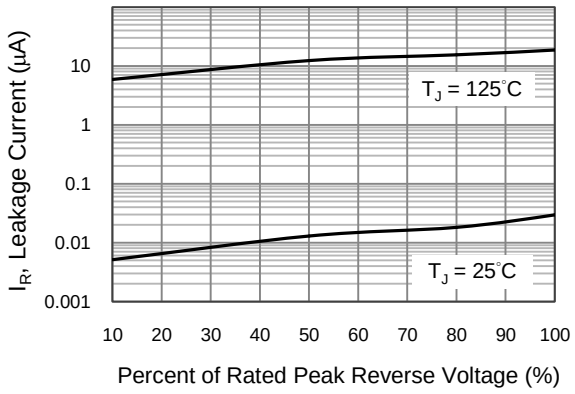

Fig.3 Typical Reverse Characteristics

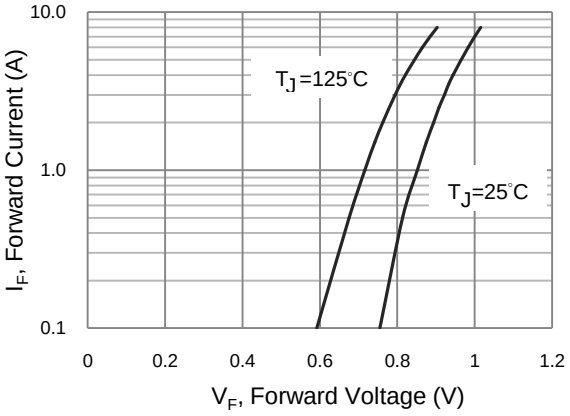

Fig.4 Typical Forward Characteristics

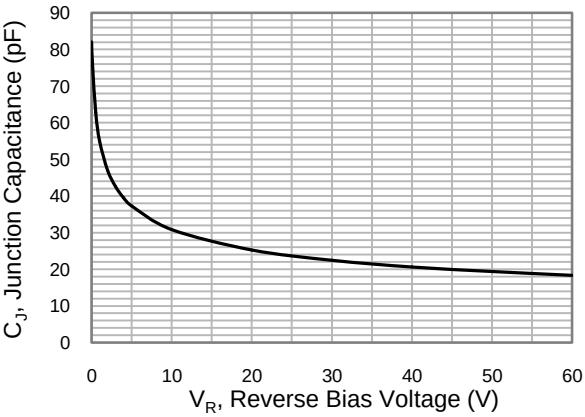

Fig.5 Typical Junction Capacitance

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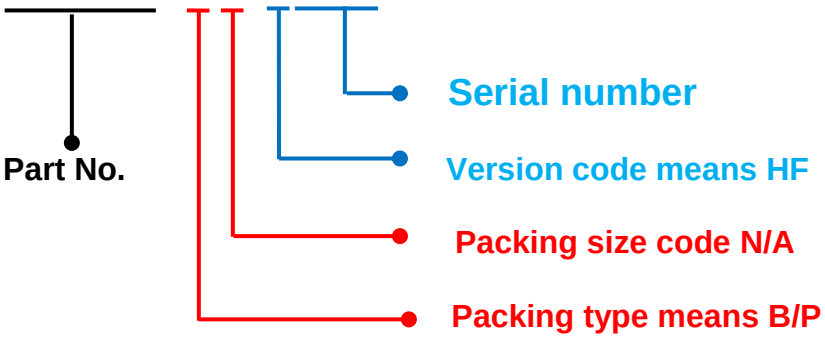
Part No_packing code_Version

KBL404_B0_00001
KBL404_B0_10001

For example :

KBL404_B0_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2st Code	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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