



Glass Passivated Bridge Rectifiers

VOLTAGE | 400 to 1000 Volt | CURRENT | 4 Ampere

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

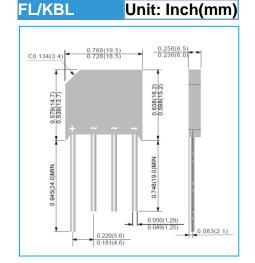
MECHANICAL DATA

· 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		Vrrm	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	280	420	560	700	V
Maximum DC blocking voltage		VDC	400	600	800	1000	V
Maximum average forward rectified current		F(AV)		А			
Peak forward surge current, 8.3 ms single half sine-wave		FSM		А			
Rating of fusing (t<8.3ms)(Note1)		l ² t	93				A ² s
Maximum instantaneous forv voltage per diode	vard I _F = 2 A I _F = 4 A	VF			1 .1		V
Maximum reverse current @ rated V _R	TJ =25°C TJ =125°C	I R	5 500				μА
Typical junction capacitance (Note 2)		C¹		pF			
Typical thermal resistance	(Note 3) (Note 4)	R θ JA R θ JL	19 2.4				°C/W
Operating junction temperature range		TJ	- 55 to +150				°C
Storage temperature range		Tstg	- 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





TYPICAL CHARACTERISTIC CURVES

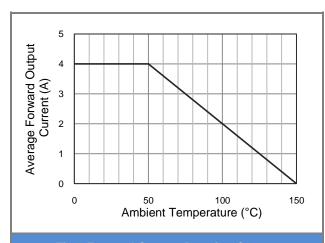


Fig.1 Forward Current Derating Curve

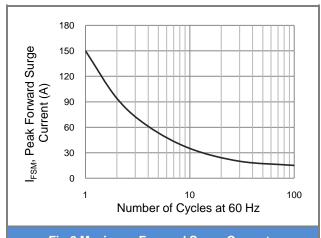


Fig.2 Maximum Forward Surge Current

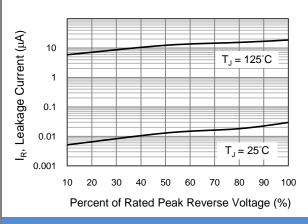


Fig.3 Typical Reverse Characteristics

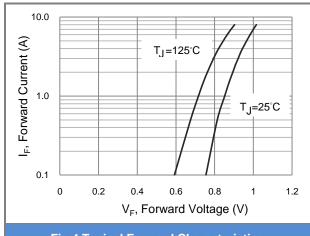
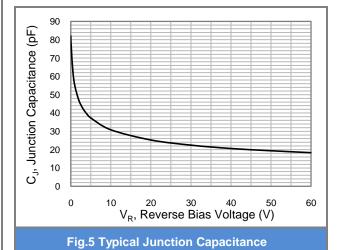


Fig.4 Typical Forward Characteristics



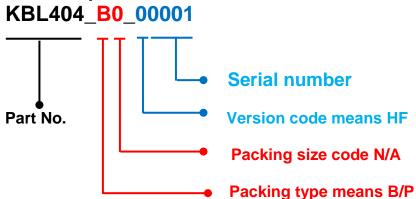




Part No_packing code_Version

KBL404_B0_00001 KBL404_B0_10001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	I st Code	Packing size code	2 st Code	HF or RoHS	I st Code	2 st ~5 st 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)	В	13"	2				
Tube Packing (T/P)	т	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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