

PTN Number	PJT-KBL406-140923
Publication Date	14/09/23
Effectivity Date	Immediate
Change Summary	KBL406 EOL Notification
Last Time Buy	No LTB available
Last Time Ship	N/A – Existing PO Only

## Functionality change

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Part no longer available for production.

## Details of Change

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Panjit have advised they are no longer able to product Bridge Rectifier part KBL406 with Immediate effect. It has no longer become commercially viable, but they have advised of a cost effective inhouse alternative for consideration: **GBL410**

Further details of the suggested alternative are included in this notification below.

These changes apply with immediate effect to shipments from manufacturer to Anglia. Anglia operates a strict FIFO system in our Distribution Centre facility; therefore, it may take time for this change to filter through to customer deliveries.

Please make the relevant person(s) in your organisation aware of this change.

Yours Sincerely

Anglia

**Glass Passivated Bridge Rectifier**

<b>Voltage</b>	<b>1000 V</b>	<b>Current</b>	<b>4A</b>
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**Features**



- Ideal for printed circuit boards
- UL recognition file number E526209
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

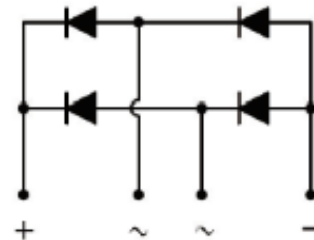
**Mechanical Data**

- Case : GBL-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 2.1759 grams

**Application**

- Computing Power / Consumer Power
- Game Console Power
- Monitor Power
- Slim Adapter

**GBL-2**



Key Parameters	
Parameter	Value
<b><math>V_{RRM}</math></b>	<b>1000V</b>
<b><math>I_F(AV)</math></b>	<b>4A</b>
<b><math>I_{FSM}</math></b>	<b>150A</b>
<b><math>I_R</math></b>	<b>5uA</b>
<b>Package</b>	<b>GBL-2</b>

**Maximum Ratings and Thermal Characteristics** ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	1000	V
Maximum RMS Voltage		$V_{RMS}$	700	V
Maximum DC Blocking Voltage		$V_{DC}$	1000	V
Maximum Average Forward Current	With heatsink	$I_{F(AV)}$	4	A
	Without heatsink		2.1	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^\circ\text{C}$	$I_{FSM}$	150	A
	@ $T_A = 125\text{ }^\circ\text{C}$		120	
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^\circ\text{C}$	$I_{FSM}$	280	A
	@ $T_A = 125\text{ }^\circ\text{C}$		220	
$I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )		$I^2 t$	93.3	$\text{A}^2\text{S}$
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$		$C_J$	50	pF
Typical Thermal Resistance (Note 1) (with heatsink)		$R_{\theta JA}$	25	$^\circ\text{C/W}$
		$R_{\theta JL}$	10	
		$R_{\theta Jc}$	12	
Operating Junction Temperature Range		$T_J$	-55~150	$^\circ\text{C}$
Storage Temperature Range		$T_{STG}$	-55~150	$^\circ\text{C}$

**Electrical Characteristics** ( $T_A = 25\text{ }^\circ\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 2\text{ A}, T_J = 25\text{ }^\circ\text{C}$	-	-	1.05	V
Reverse Current	$I_R$	$V_R = 1000\text{ V}, T_J = 25\text{ }^\circ\text{C}$	-	-	5	uA
		$V_R = 1000\text{ V}, T_J = 125\text{ }^\circ\text{C}$	-	-	100	

NOTES :

1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink

TYPICAL CHARACTERISTIC CURVES

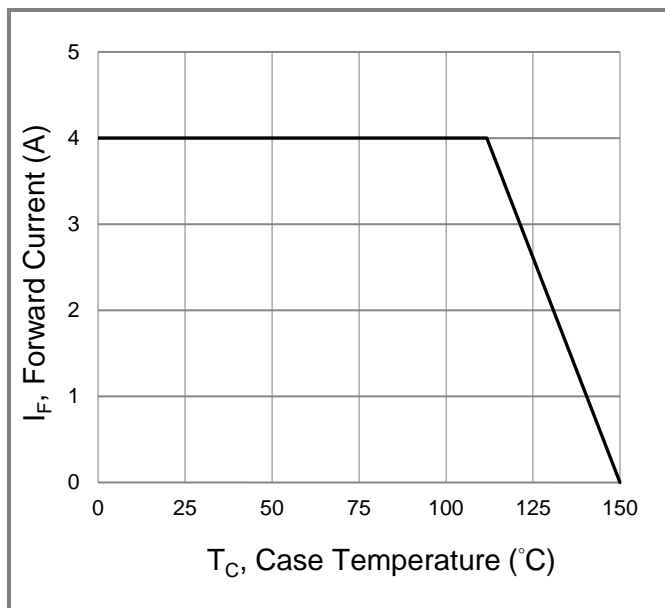


Fig.1 Forward Current Derating Curve

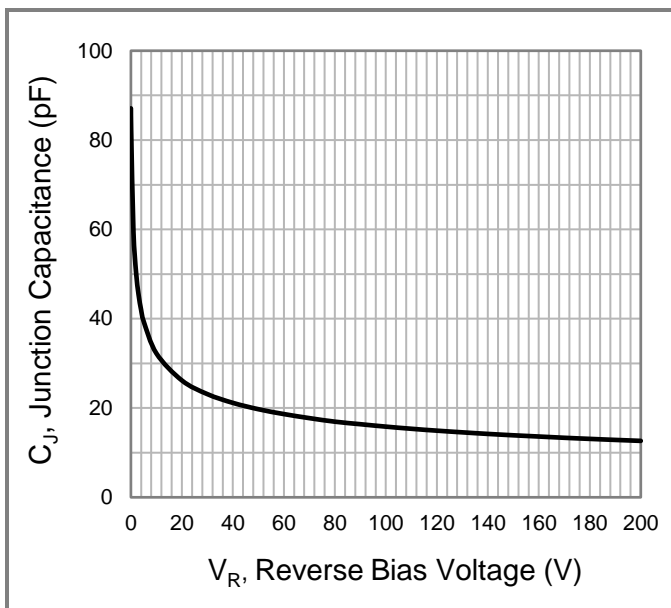


Fig.2 Typical Junction Capacitance

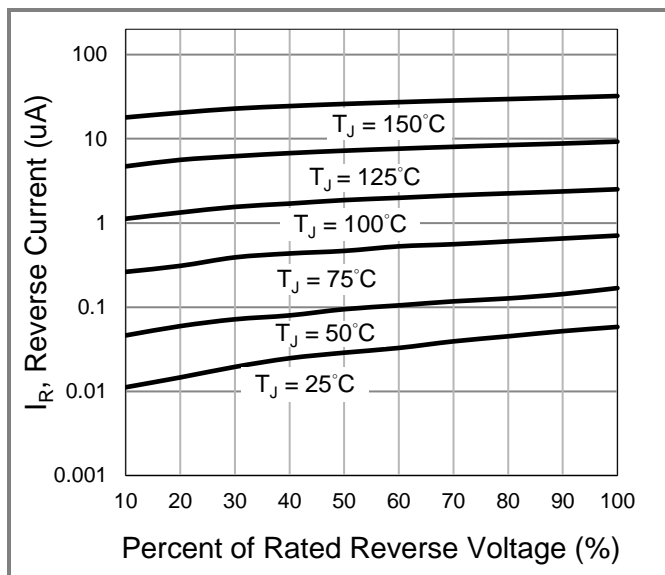


Fig.3 Typical Reverse Characteristics

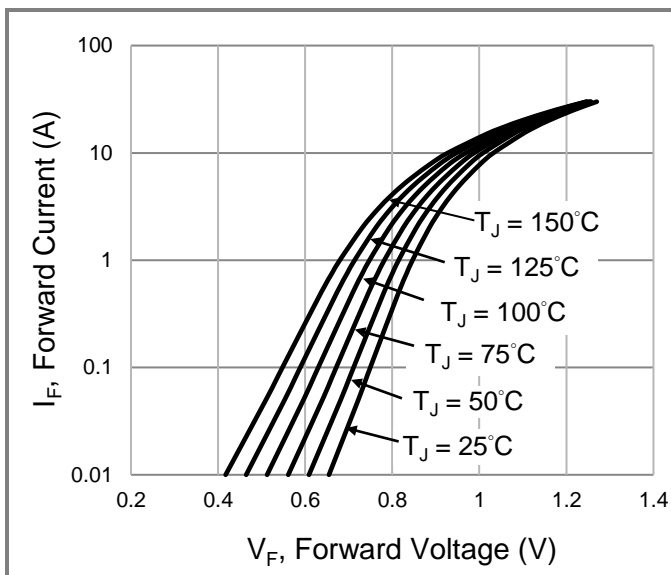
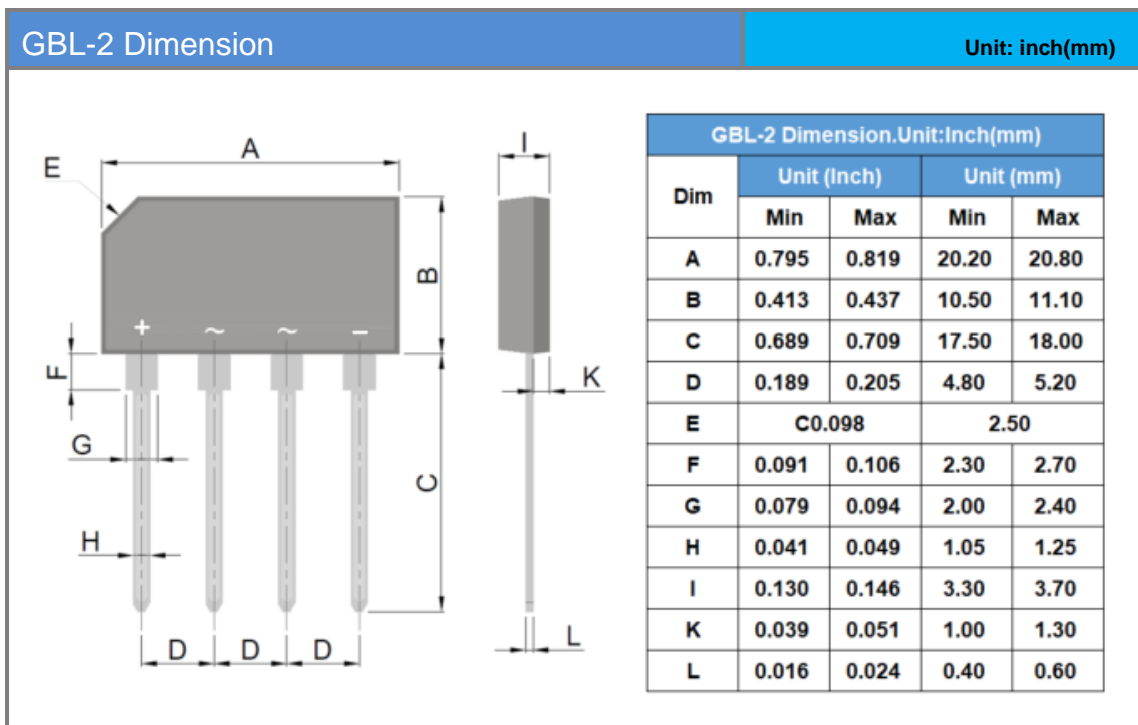


Fig.4 Typical Forward Characteristics

**Part No. Marking Code Version**

Approved Part No.	Package Type	Packing Type	Marking
GBL410	GBL-2	25pcs / Tube	GBL410

**Packaging Information**



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