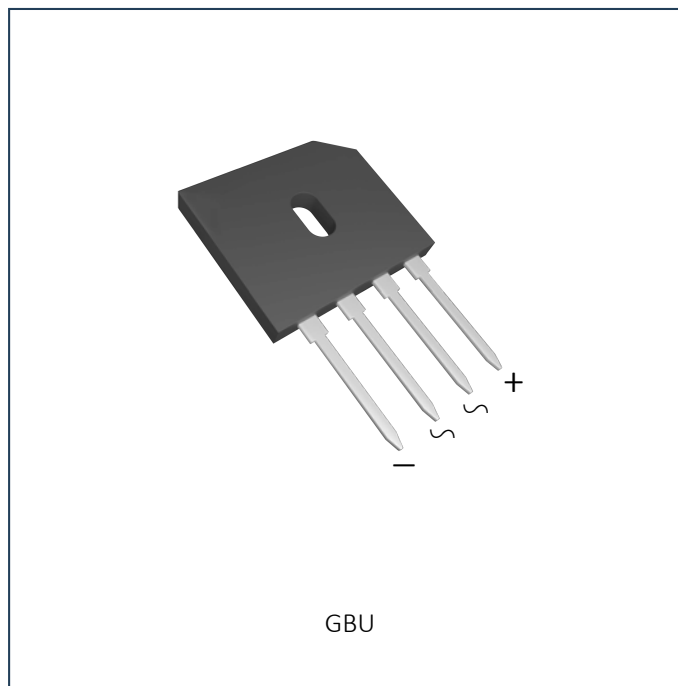


封装外形 Package



产品特点 Features

- 玻璃钝化芯片 Glass passivated chip
- 高浪涌电流能力 High surge current capability
- 低漏电流 Low leakage current
- 符合 RoHS 指令 2011/65/EU
Compliant to RoHS directive 2011/65/EU
- 焊料浸渍温度最高为 275℃，持续 7 秒
Solder dip 275 °C max. 7 s

主要参数 Device summary

Symbol	Value
$I_F(AV)$	4A
V_{RRM}	1000V
$V_F(typ)$	0.78V@2A 125°C
$I_R(typ)$	0.04mA@ V_{RRM} 125°C
$T_{j(max)}$	150°C

机械数据 Mechanical Data

- 模塑料符合 UL 94 V-0 易燃等级，符合 RoHS 标准
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- 端子：镀锡引线，可焊接 J-STD-002 和 JESD22-B102
Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- 极性：本体标记
Polarity: As marked on body

最大额定值 Maximum ratings(Ta=25°C)

项目 Parameter	符号 Symbol	数值 Value	单位 Unit
反向重复峰值电压 Peak repetitive reverse voltage	V _{RRM}	1000	V
正向电流 Forward current	I _F	带散热片 T _c =110°C With heatsink T _c =110°C 4	A
		不带散热片 T _c =25°C Without heatsink T _c =25°C 2.3	
浪涌电流 Non-repetitive single pulse surge current t=8.3ms	I _{FSM}	100	A
结温 Junction temperature	T _j	-55~+150	°C
存储温度 Storage temperature	T _{STG}	-55~+150	°C
绝缘电压 (端子至外壳交流 1 分钟) Dielectric strength(terminal to case AC 1 minute)	V _{dis}	2500	V
安装扭矩 Mounting torque@Recommend torque: 5kg·cm	T _{or}	8	kg·cm

电特性 Electrical characteristics(Ta=25°C)

项目 Parameter	测试条件 Tests conditions		数值 Value			单位 Unit
			最小值 (min)	典型值 (typ)	最大值 (max)	
V _{RRM} 反向电压	I _R =0.05mA		1000	-	-	V
I _R 反向漏电	T _j =25°C	V _R =V _{RRM}	-	-	0.006	mA
	T _j =125°C		-	-	0.2	
V _F 正向电压	T _j =25°C	I _F =2A	-	-	1.1	V
	T _j =100°C	I _F =1A	-	0.77	-	
		I _F =2A	-	0.82	-	
	T _j =125°C	I _F =1A	-	0.73	-	
		I _F =2A	-	0.78	-	

热特性 Thermal characteristics(Ta=25°C)

Parameter	Symbol	Value	Unit
结到环境热阻 (无散热片) Junction to ambient thermal resistance(without heatsink)	R _{th(j-a)}	25	°C/W
结到管壳热阻 (有散热片) Thermal resistance from junction to case(with heatsink)	R _{th(j-c)}	2.0	°C/W

典型特征图 Typical Characteristics

图 1: 正向电流与外壳温度

FIG 1: I_F - T_c

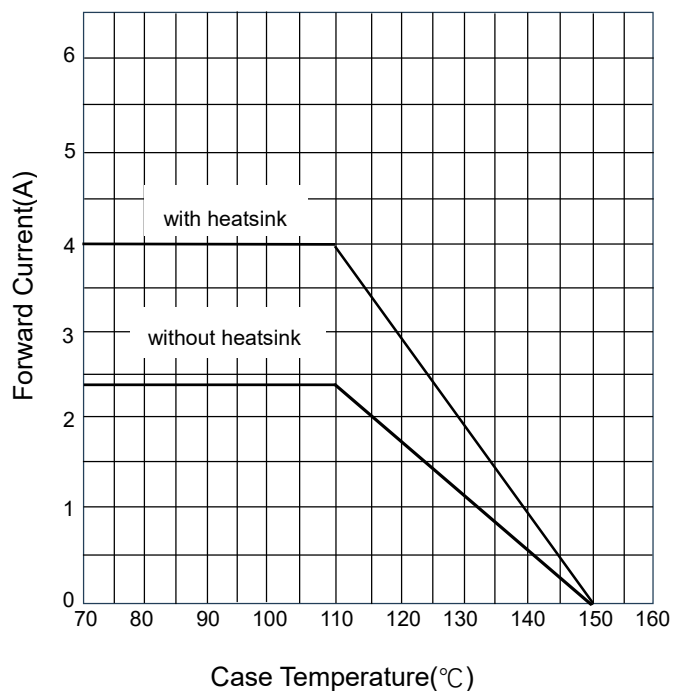


图 2: 正向浪涌循环次数

FIG 2: Surge Forward Current Capability

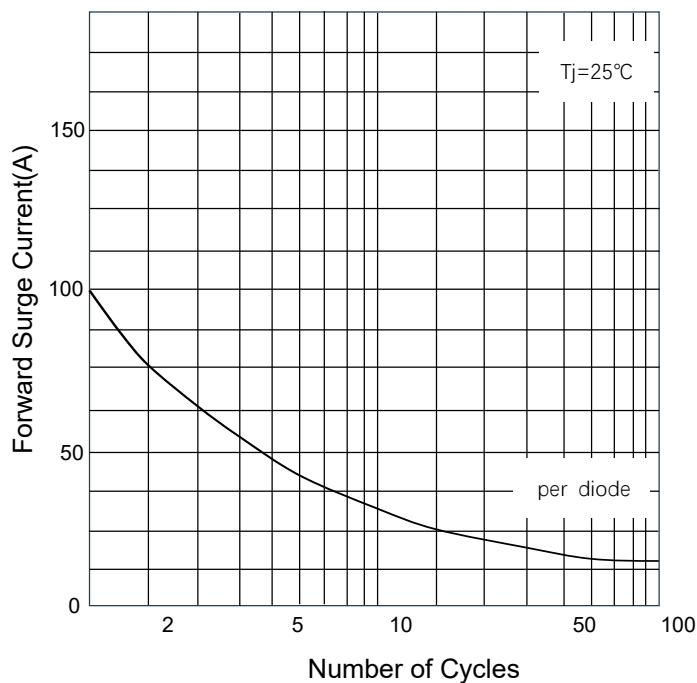


图 3: 反向电压与反向电流

FIG 3: V_R - I_R

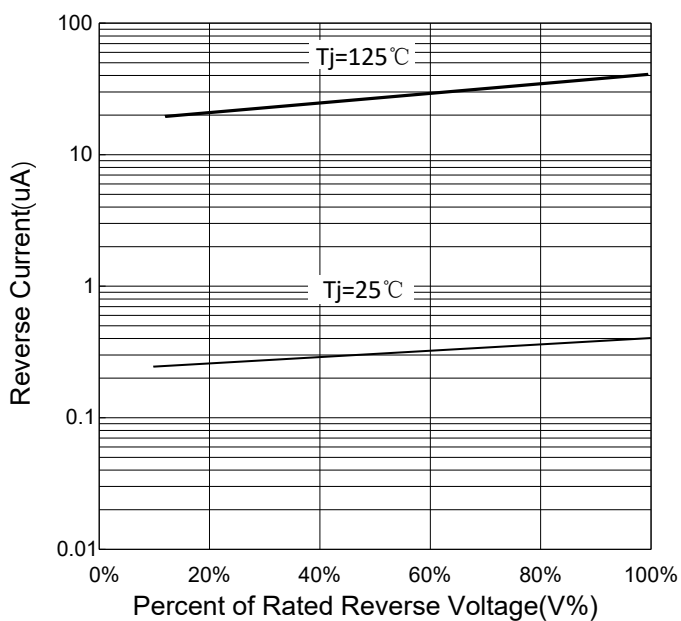
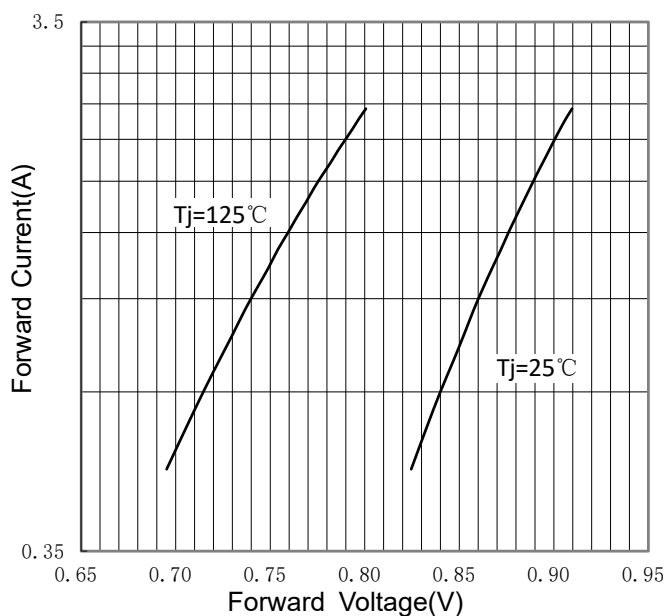


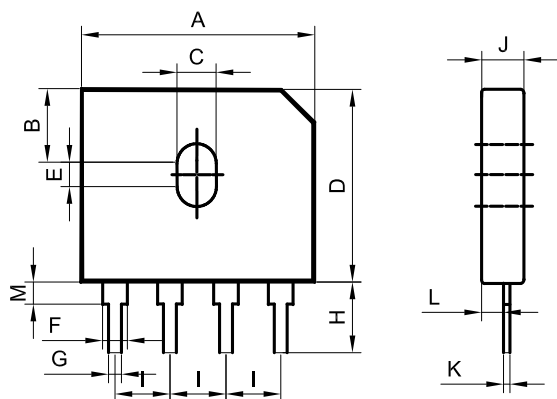
图 4: 正向电流与正向电压

FIG 4: I_F - V_F



外形尺寸 Outline Dimensions

GBU-C40



Dim	Min	Typ	Max
A	21.80	22.00	22.20
B	7.60	7.80	8.00
C	3.50	3.80	4.10
D	18.30	18.50	18.70
E	1.70	1.90	2.10
F	2.05	2.30	2.55
G	1.00	1.15	1.30
H	5.90	6.20	6.50
I	4.90	5.00	5.10
J	3.30	3.40	3.50
K	0.35	0.45	0.55
L	1.90	2.10	2.30
M	1.90	2.2	2.50
尺寸单位: (mm) Dimensions in millimeters			

订购信息 Ordering Information

订单型号 Order code	印记 Marking	封装 Package	重量 Weight (g)	包装形式 Packing	基本包装 Base qty (pcs)	盒 Box (pcs)	箱 Carton (pcs)
CGBU410C40B	GBU410	GBU	3.8	盒装 Box	250	250	5000

注 note:

*. "C40"为短脚，详见外形尺寸。 "C40" means short pin, the size is shown in the Outline Dimensions.

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