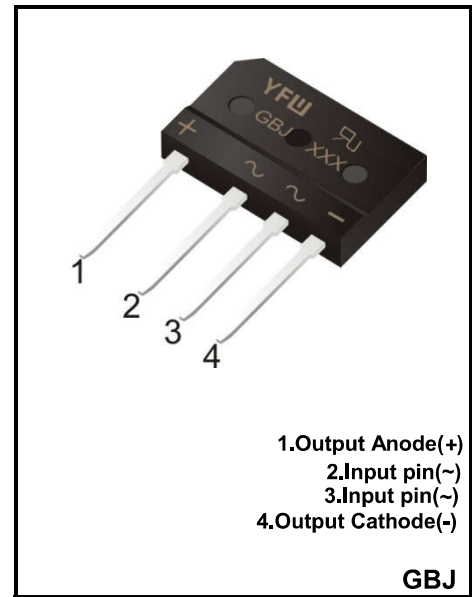


40A GLASS PASSIVATED BRIDGE RECTIFIER
Reverse Voltage - 400 to 1000 V
Forward Current – 40A
FEATURES

- ◆Class passivated chip
- ◆Low Reverse Leakage Current
- ◆High surge current capability
- ◆Case to Terminal Isolation Voltage 2500V

MECHANICAL DATA

- ◆Case: GBJ
- ◆Terminals: Solderable per MIL-STD-202, Method 208
- ◆Approx. Weight: 6.5g


Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBJ4004	GBJ4006	GBJ4008	GBJ4010	Units
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	$I_{(AV)}$	40				A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method) @Ta=85°C	I_{FSM}	450				A
Forward Voltage per element @If =20A	V_F	1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Ta=25°C @Ta=125°C	I_R	5 500				μA
I2t Rating for Fusing(3ms≤t≤8.3ms)	I^2t	664				A ² S
Typical Junction Capacitance ^(Note1)	C_j	130				pF
Typical Thermal Resistance ^(Note2)	$R_{θJC}$	1.0				°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150				°C

Note:

(1) Junction to case with heatsink

(2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw

■ Characteristics(Typical)

FIG1.Io-Ta Curve
图1. 电流降额曲线

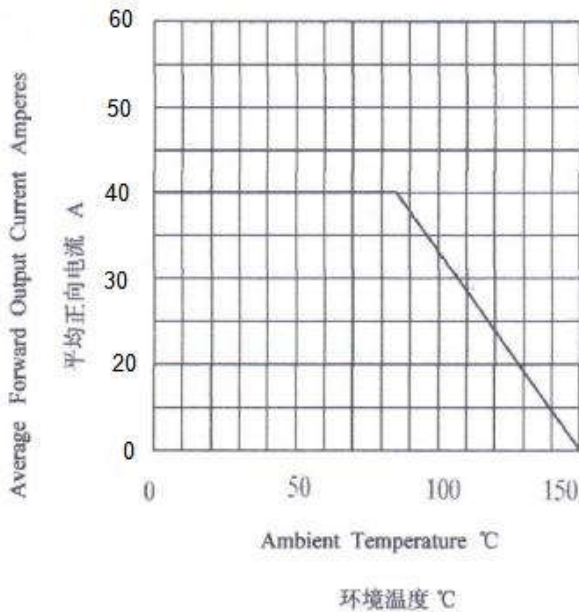


FIG.2. Surge Forward Current Capability
图2. 最大正向不重复峰值浪涌电流

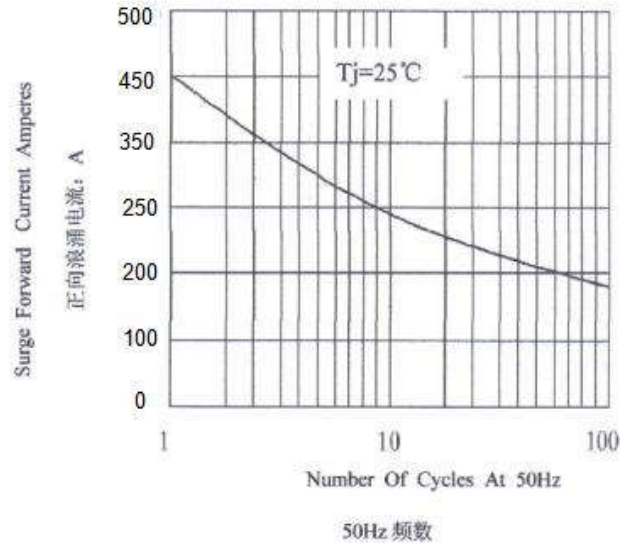


Fig. 3 - Typical Reverse Characteristics
图3 典型的反向特性

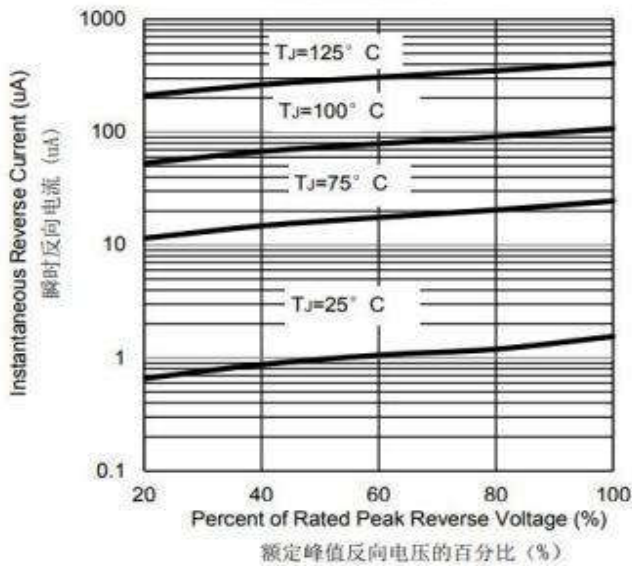
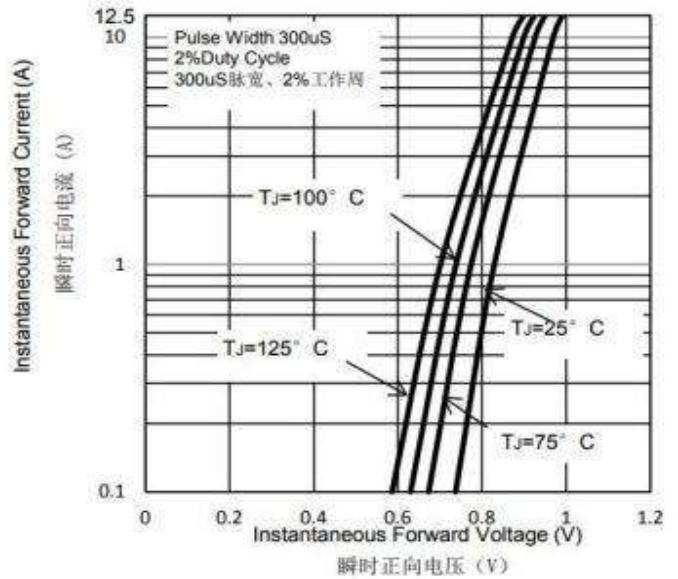
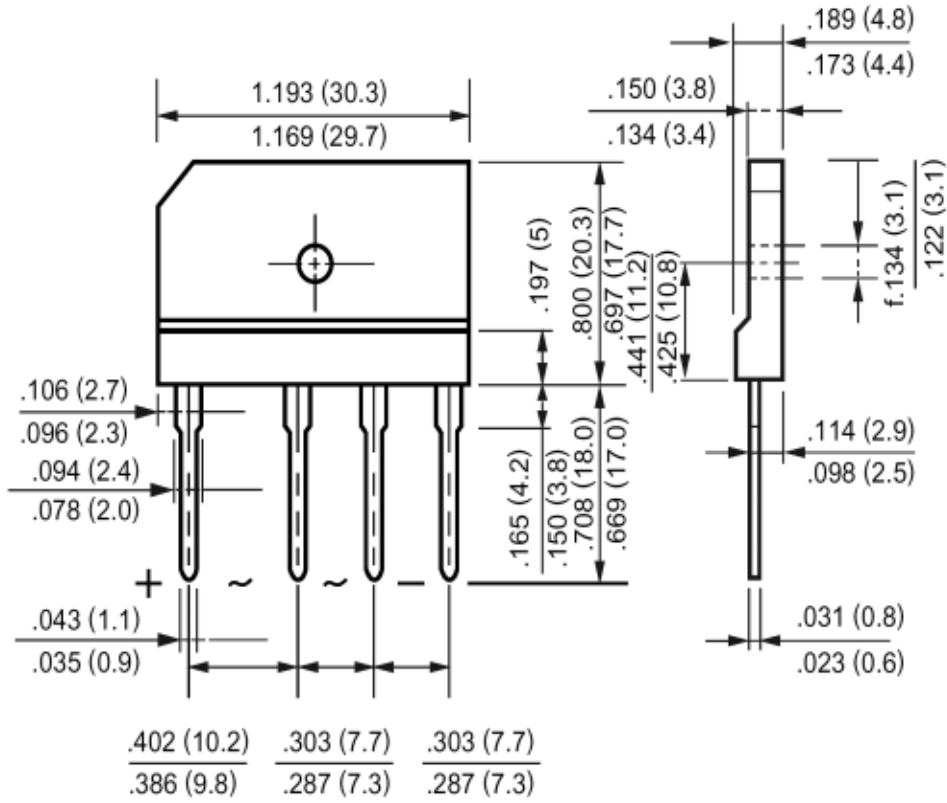


Fig. 4 - Typical Forward Characteristics
图4 典型的正向特性



Package Outline

GBJ



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
GBJ	BOX	200	EIA-481-1