

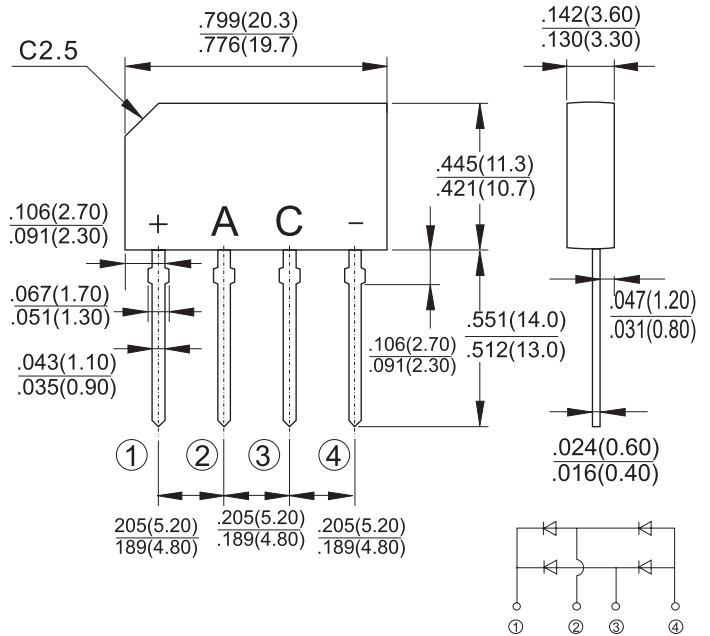
CURRENT 4.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

GBL4005 THRU GBL410

Features

- ✧ This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- ✧ Glass passivated chip junction
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Typical IR less than 0.1μA
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths.

GBL



Mechanical Data

- ✧ Case: Molded plastic body.
- ✧ Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- ✧ Weight: 0.06 ounce, 1.7 grams
- ✧ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

at 25°C ambient temperature unless otherwise specified.

PARAMETERS	SYMBOL	GBL 401	GBL 402	GBL 404	GBL 406	GBL 408	GBL 410	UNIT
Maximum Repetitive Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25^\circ\text{C}$ @ $T_A=125^\circ\text{C}$	I_R	5 500						μA
Average rectified forward current 60Hz Sine Wave Resistance load @ $T_c=50^\circ\text{C}$ @ $T_A=40^\circ\text{C}$	I_o	4 3						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	150						A
Rating of fusing ($t < 8.3\text{ms}$)	I^2t	93						A ² sec
Dielectric strength terminals to case, AC 1 minute Current 1mA	V_{dia}	2.5						KV
Maximum instantaneous forward voltage at 2.0A	V_F	1.0						V
Maximum thermal on P.C.B without heat-sink	$R_{\theta JA}$	32						$^\circ\text{C} / \text{W}$
Resistance per leg on Al plate heat-sink	$R_{\theta JC}$	8						
Operating Junction and Storage Temperature Range	T_J, T_{STG}	150, -55 ~ 150						$^\circ\text{C}$

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Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

Fig. 1 Derating Curve

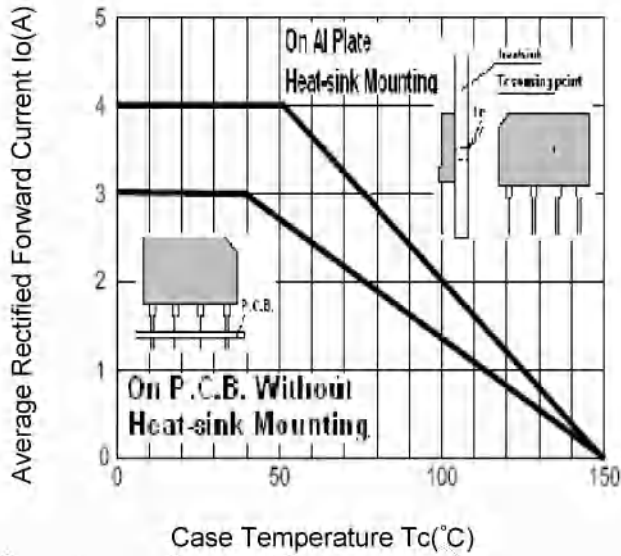


Fig.2 Typical Reverse Characteristics

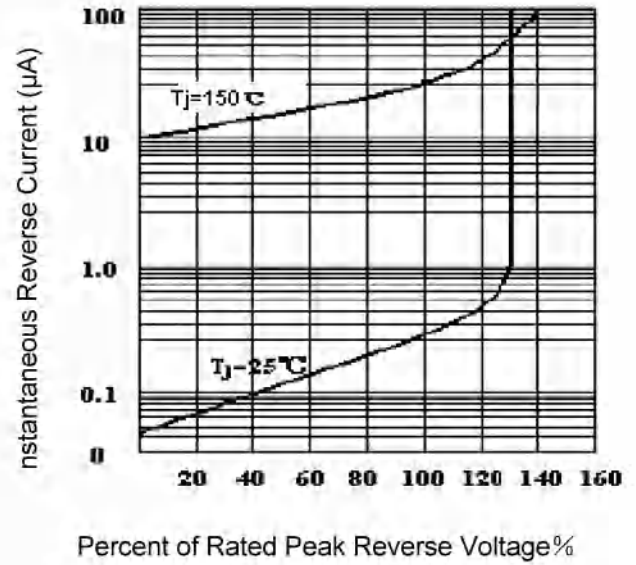


Fig.3 Forward Voltage

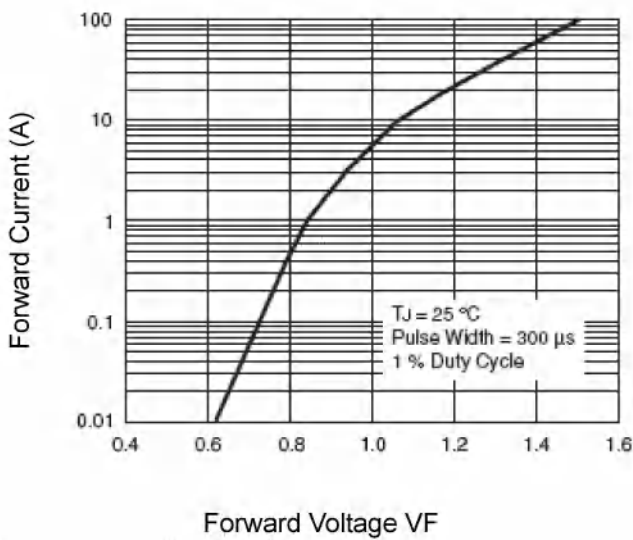


Fig.4 Peak Surge Forward Capability

