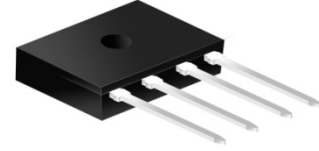


SuperPlanar™ Bridge Rectifiers

GBS2J--GBS2K

Features

- Planar passivated chips
- Ultra low leakage reverse current
- High temperature performance
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed:260°C/10 seconds
- RoHS Compliant



Mechanical Data

- Case: GBS molded plastic
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Leads solderable per MIL-STD-750,
- Mounting position: Any

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	GBS2J	GBS2K	Units
Peak repetitive reverse voltage	V _{RRM}	600	800	V
RMS reverse voltage	V _{RMS}	420	560	V
DC blocking voltage	V _{DC}	600	800	V
Maximum average forward output current	I _{F(AV)}	2.0		A
Peak forward surge current, 8.3ms single half-sine-wave	@T _J = 25°C I _{FSM}	90		A
I ² t Rating for fusing	@T _J = 25°C I ² t	33.6		A ² s

Thermal Characteristics

Parameter	Symbol	GBS2J	GBS2K	Units
Typical thermal resistance per leg (Note 1,Note2)	R _{θJA} (2)	39		°C /W
	R _{θJC} (1)	5.3		
Operating junction temperature range	T _J	- 55 ---- + 150		°C
Storage temperature range	T _{STG}	- 55 ---- + 150		°C

Note:

- (1) Unit case mounted on 65mm x 50mm x2.4mm aluminum plate heatsink
- (2) Units mounted on PCB without heatsink

SuperPlanar™ Bridge Rectifiers
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Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Typ.	Max.	Units	
Maximum instantaneous forward voltage	V _F	I _F =1.0A Per Diode	0.92	0.95	V	
		I _F =2.0A Per Diode	0.95	1.0		
Maximum Reverse current	I _R	Rated V _R , Per Diode	@T _A =25°C	0.1	1.0	μ A
			@T _A =150°C	20	80	

SuperPlanar™ Bridge Rectifiers

GBS2J--GBS2K

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

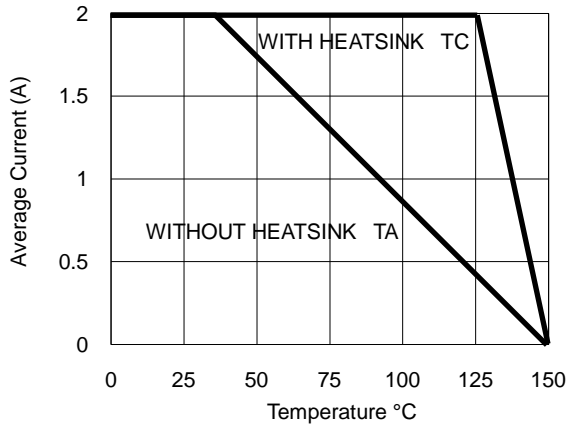


Fig.2- Surge Current Derating Curve

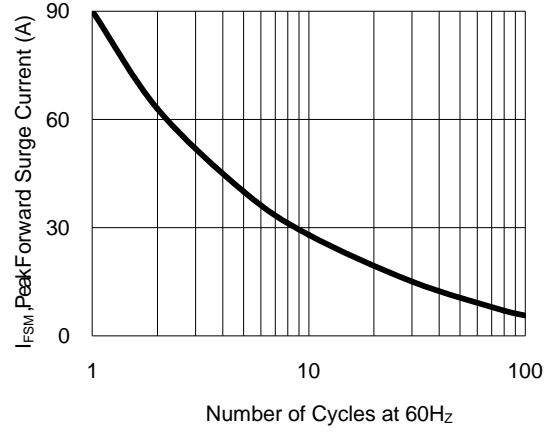


Fig.3- Typical Forward Voltage Characteristic

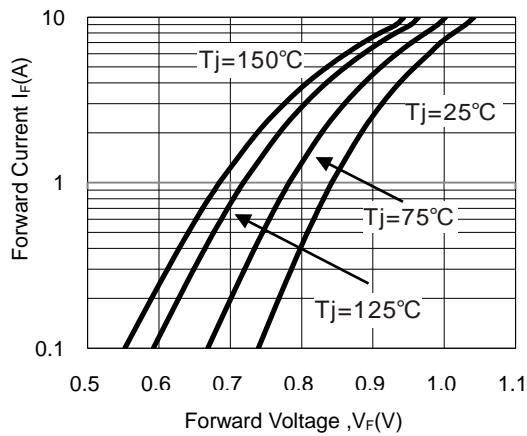
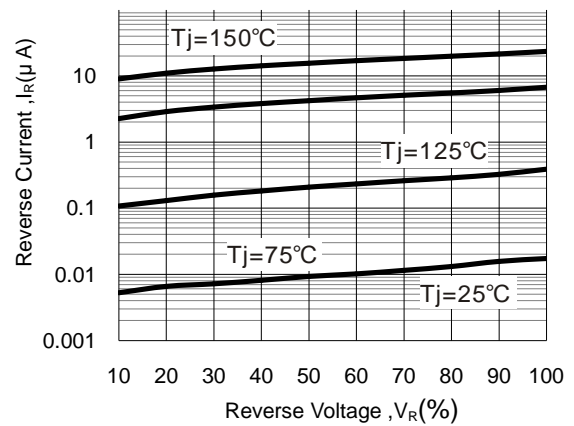


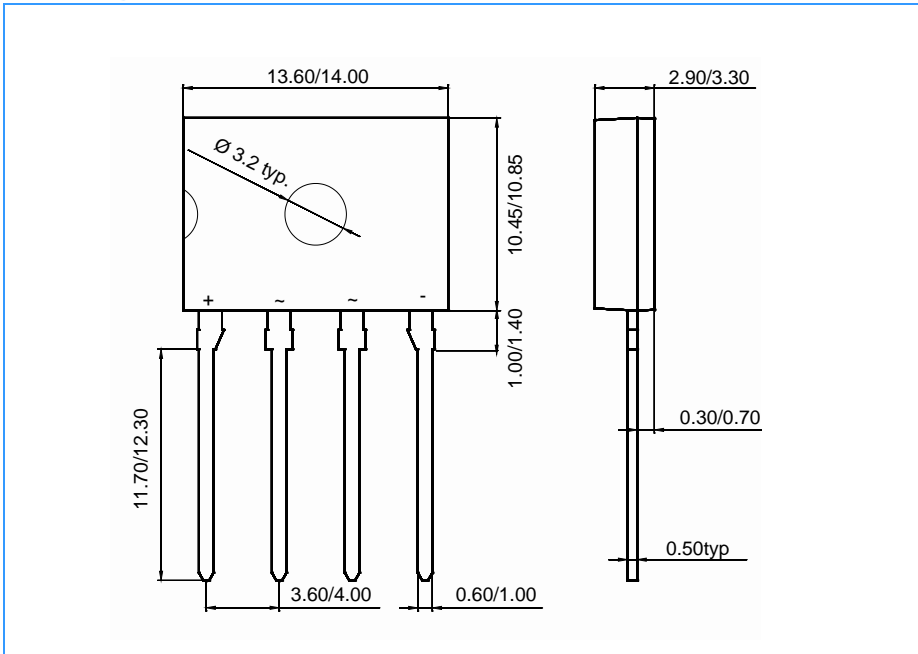
Fig.4- Typical Reverse Characteristic



SuperPlanar™ Bridge Rectifiers

GBS2J--GBS2K

Package Outline Dimensions(unit:mm)



Ordering Information

Part No.	Marking	Package	Shipping
GBS2J	GBS2J	GBS	1000/unit&Box
GBS2K	GBS2K	GBS	1000/unit&Box