

GBU0402 thru GBU0412

Feature

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value

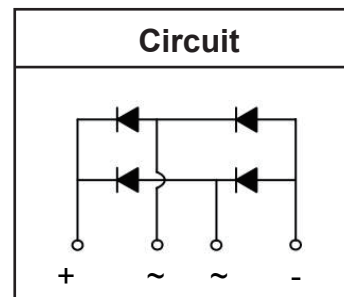
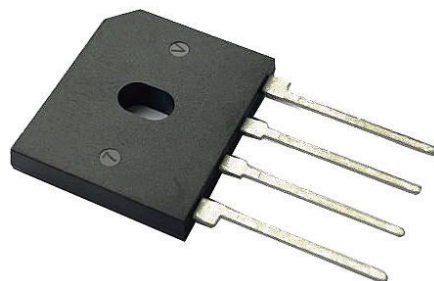
Symbol	Parameter	Rating						Unit
		GBU0402	GBU0404	GBU0406	GBU0408	GBU0410	GBU0412	
VRRM	Reverse peak repetitive voltage	200	400	600	800	1000	1200	V
VRSM	Reverse peak non-repetitive voltage	300	500	700	900	1100	1300	V

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	4	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	135	A
I ² t	Rating for fusing (t=1~10ms)	91	A ² S
Viso	A.C.50/60Hz;R.M.S.;1min	2000	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	4	g

Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =2A, Tj=25°C	1.0	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	0.5	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	14
		total	3.5



GBU0402 thru GBU0412

Performance Curves

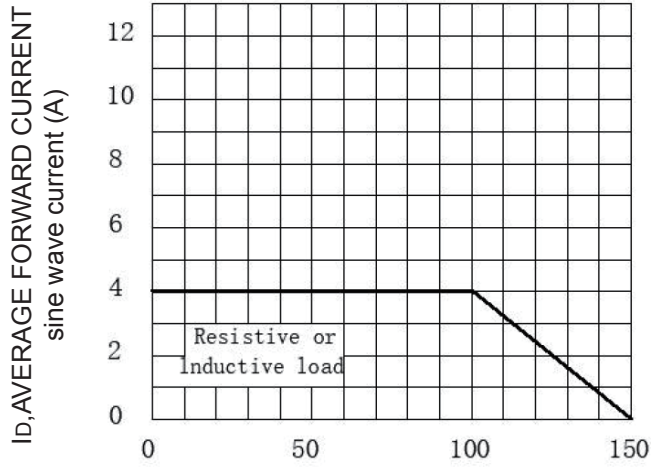


Fig.1 Forward Current Derating Curve

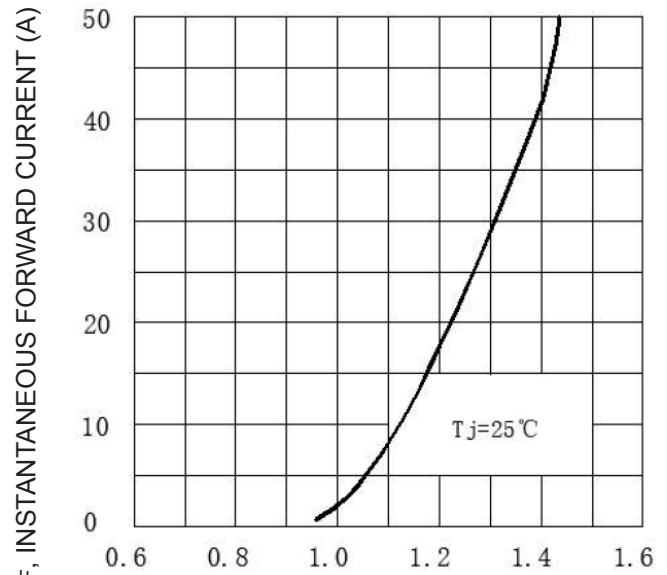


Fig.2 Maximum Forward Characteristics, per element

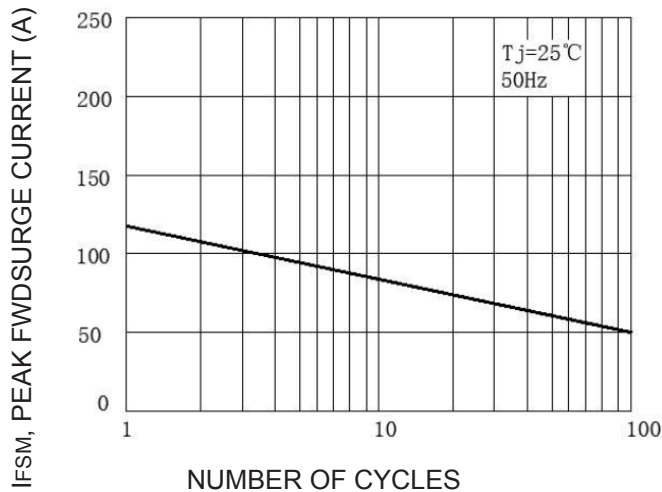
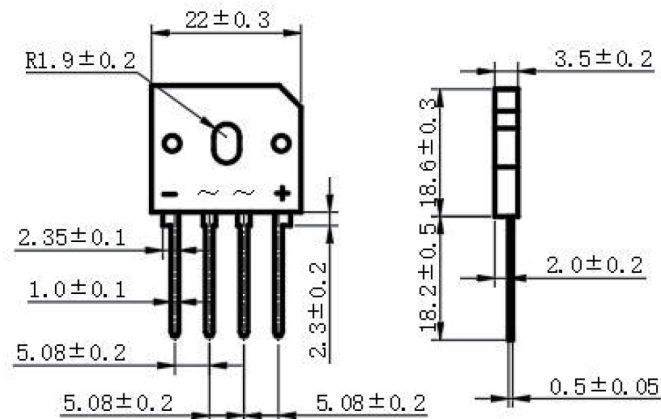


Fig.3 Max Non-Repetitive Surge Current

Outline



Dimensions in inches (mm)

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GBU0602 thru GBU0612

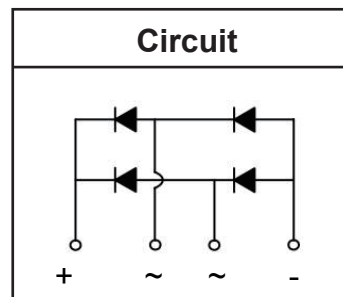
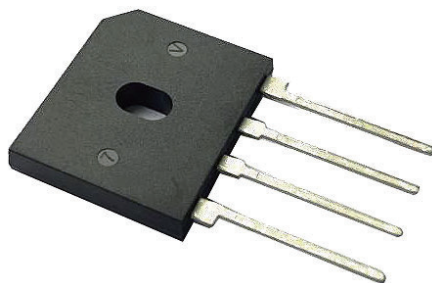
Feature

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value



Symbol	Parameter	Rating						Unit
		GBU0602	GBU0604	GBU0606	GBU0608	GBU0610	GBU0612	
VRRM	Reverse peak repetitive voltage	200	400	600	800	1000	1200	V
VRSM	Reverse peak non-repetitive voltage	300	500	700	900	1100	1300	V

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	6	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	150	A
I ² t	Rating for fusing (t=1~10ms)	112	A ² S
Viso	A.C.50/60Hz;R.M.S.;1min	2000	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	4	g

Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =3A, Tj=25°C	1.0	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	0.5	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	14
		total	3.5

GBU0602 thru GBU0612

Performance Curves

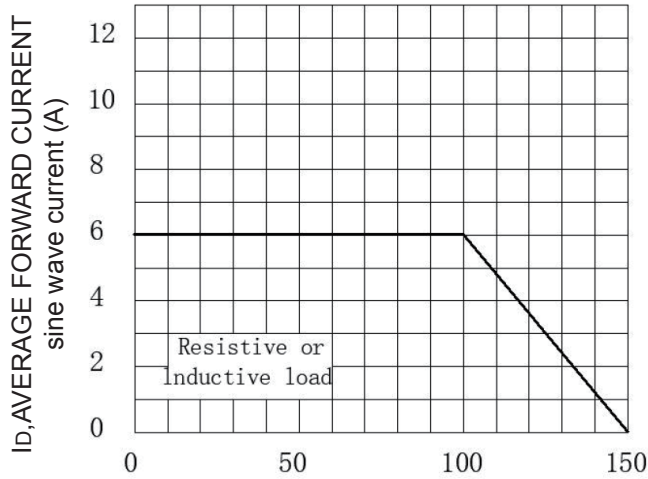


Fig.1 Forward Current Derating Curve

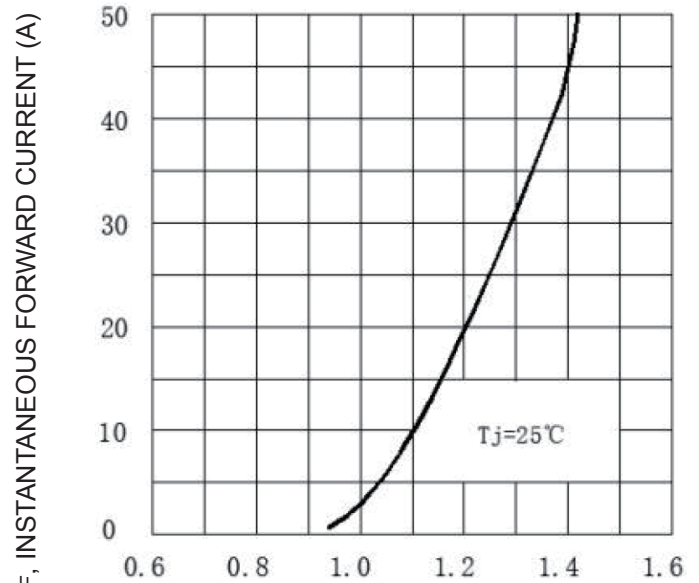


Fig.2 Maximum Forward Characteristics, per element

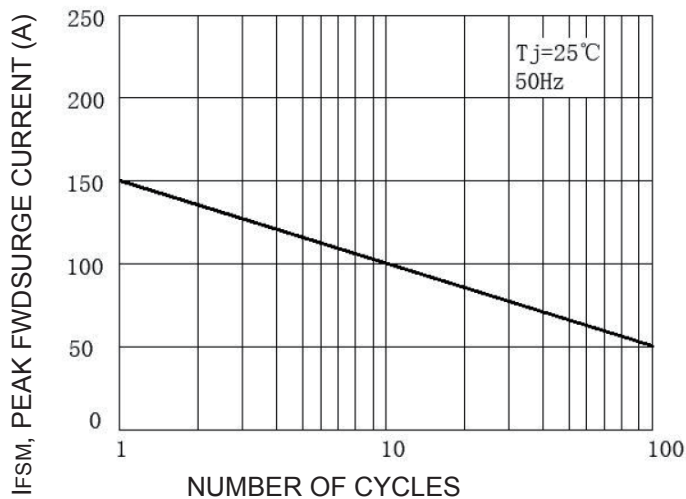
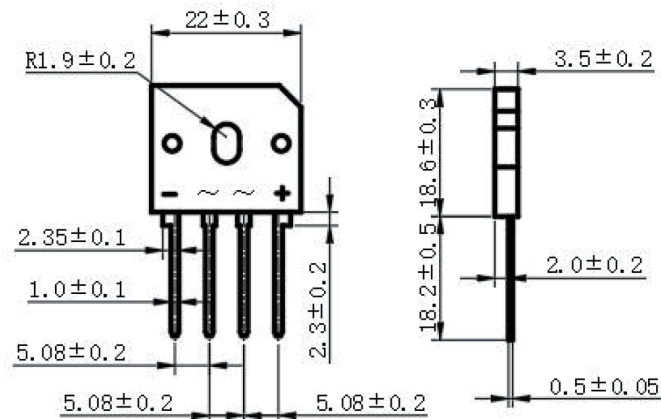


Fig.3 Max Non-Repetitive Surge Current

Outline



Dimensions in inches (mm)

GBU0802 thru GBU0812

Feature

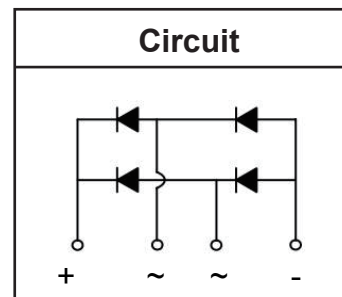
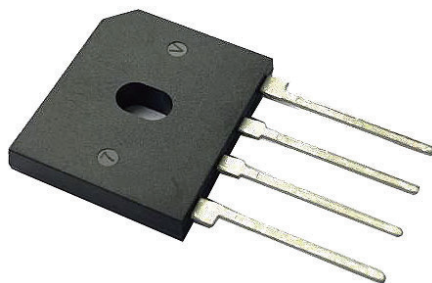
- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value

Symbol	Parameter	Rating						Unit
		GBU0802	GBU0804	GBU0806	GBU0808	GBU0810	GBU0812	
VRRM	Reverse peak repetitive voltage	200	400	600	800	1000	1200	V
VRSM	Reverse peak non-repetitive voltage	300	500	700	900	1100	1300	V



Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	8	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	175	A
I ² t	Rating for fusing (t=1~10ms)	153	A ² S
Viso	A.C.50/60Hz;R.M.S.;1min	2000	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	4	g

Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =4A, Tj=25°C	1.0	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	0.5	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	10
		total	2.5

GBU0802 thru GBU0812

Performance Curves

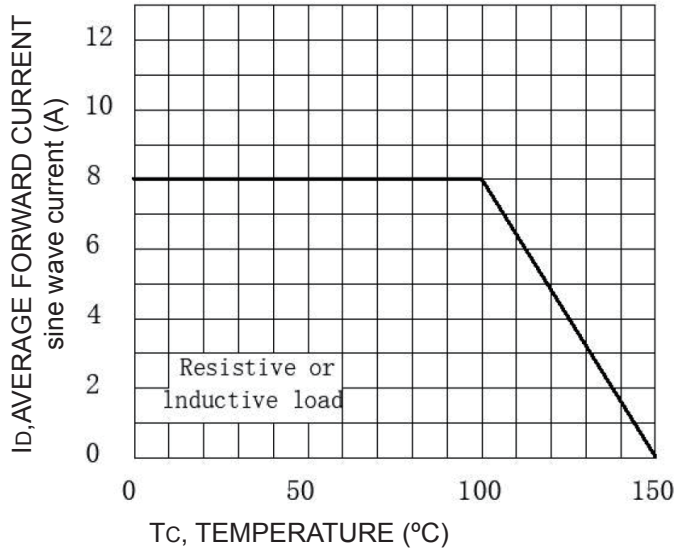


Fig.1 Forward Current Derating Curve

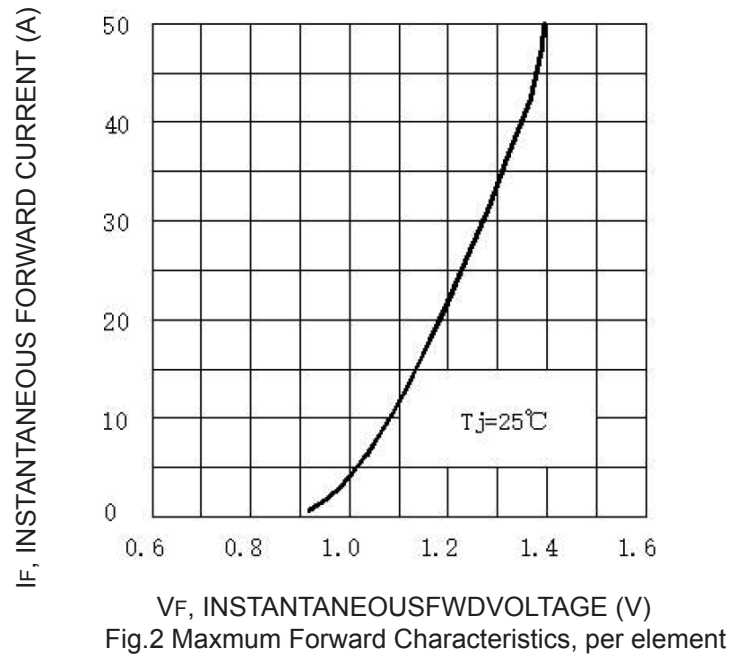


Fig.2 Maximum Forward Characteristics, per element

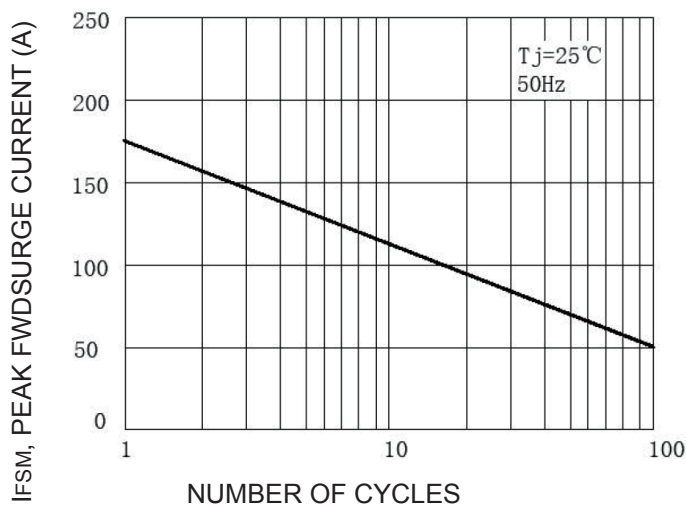
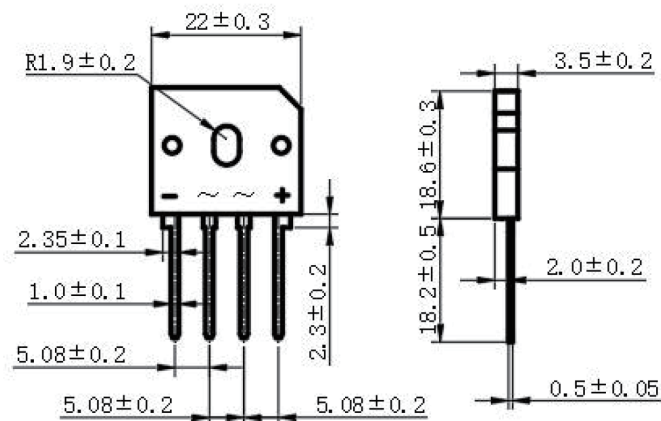


Fig.3 Max Non-Repetitive Surge Current

Outline



Dimensions in inches (mm)

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GBU1002 thru GBU1012

Feature

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value

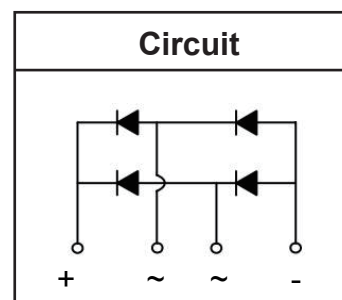
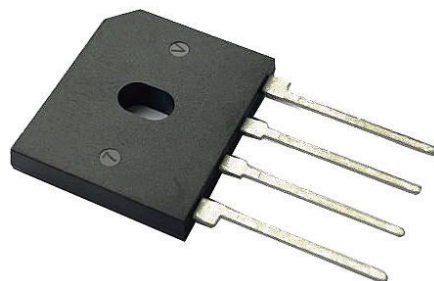
Symbol	Parameter	Rating						Unit
		GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	GBU1012	
VRRM	Reverse peak repetitive voltage	200	400	600	800	1000	1200	V
VRSM	Reverse peak non-repetitive voltage	300	500	700	900	1100	1300	V

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	10	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	230	A
I ² t	Rating for fusing (t=1~10ms)	270	A ² S
Viso	A.C.50/60Hz;R.M.S.;1min	2000	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	4	g

Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =5A, Tj=25°C	1.1	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	0.5	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	7.2
		total	1.8



GBU1002 thru GBU1012

Performance Curves

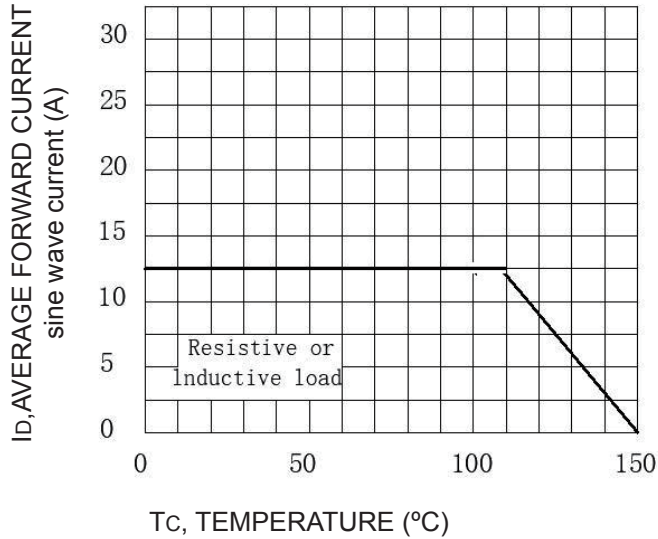


Fig.1 Forward Current Derating Curve

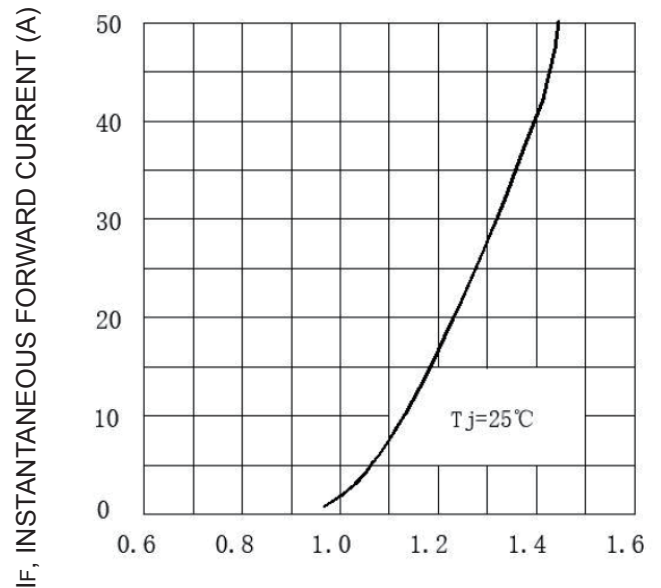


Fig.2 Maximum Forward Characteristics, per element

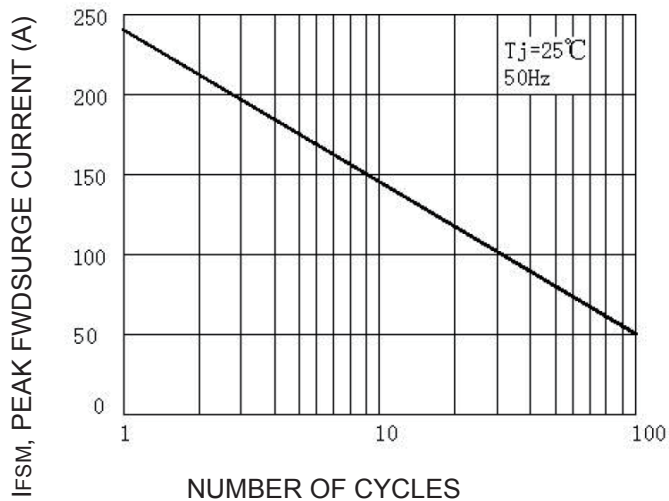
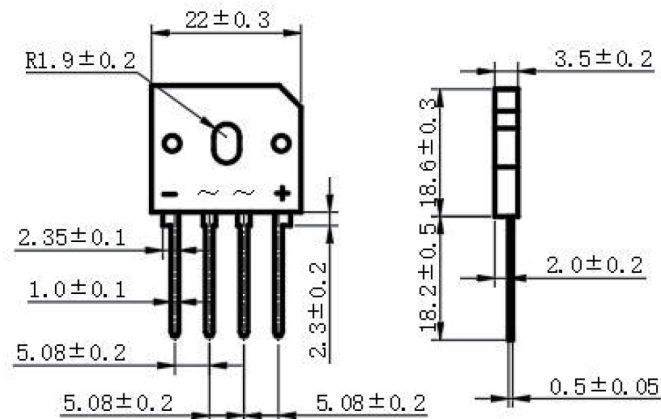


Fig.3 Max Non-Repetitive Surge Current

Outline



Dimensions in inches (mm)

GBU1502 thru GBU1512

Feature

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value

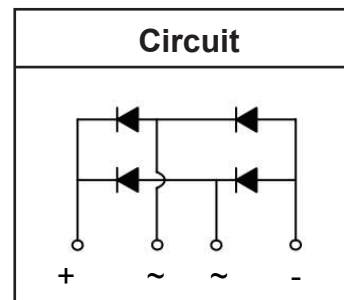
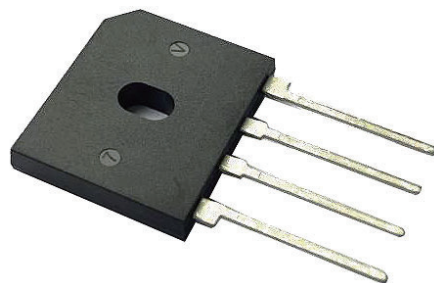
Symbol	Parameter	Rating						Unit
		GBU1502	GBU1504	GBU1506	GBU1508	GBU1510	GBU1512	
VRRM	Reverse peak repetitive voltage	200	400	600	800	1000	1200	V
VRSM	Reverse peak non-repetitive voltage	300	500	700	900	1100	1300	V

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	15	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	240	A
I ² t	Rating for fusing (t=1~10ms)	288	A ² S
Viso	A.C.50/60Hz;R.M.S.;1min	2000	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	4	g

Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =7.5A, Tj=25°C	1.1	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	0.5	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	7.2
		total	1.8



GBU1502 thru GBU1512

Performance Curves

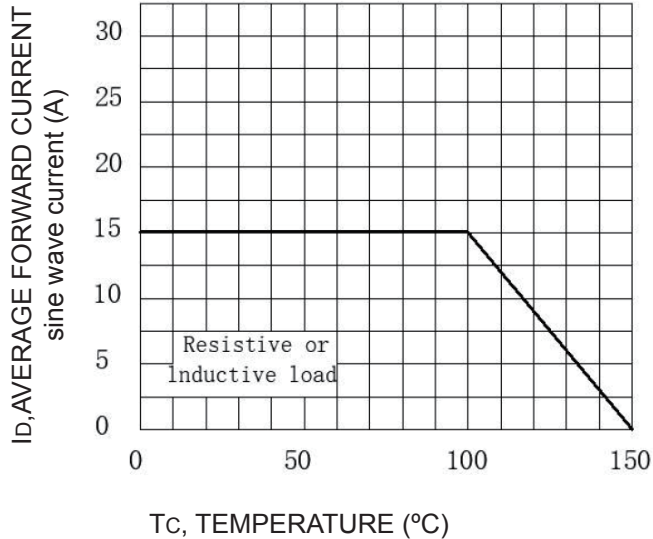


Fig.1 Forward Current Derating Curve

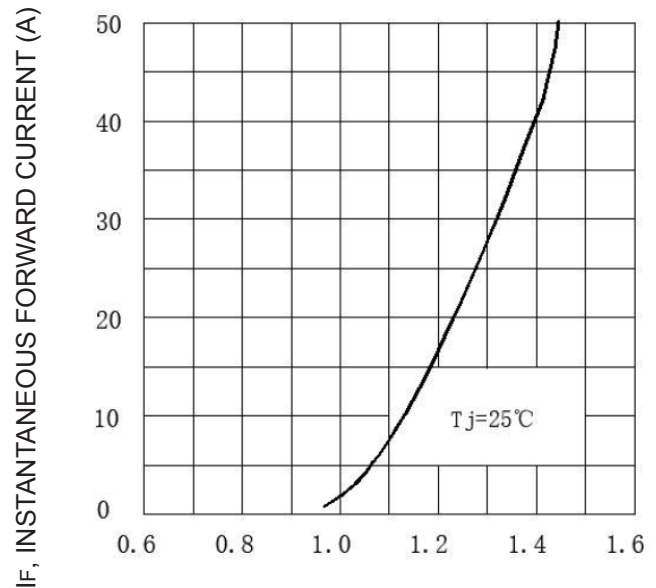


Fig.2 Maximum Forward Characteristics, per element

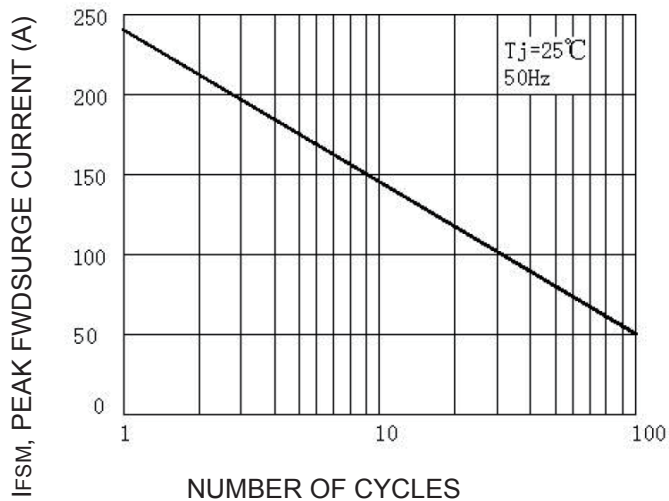
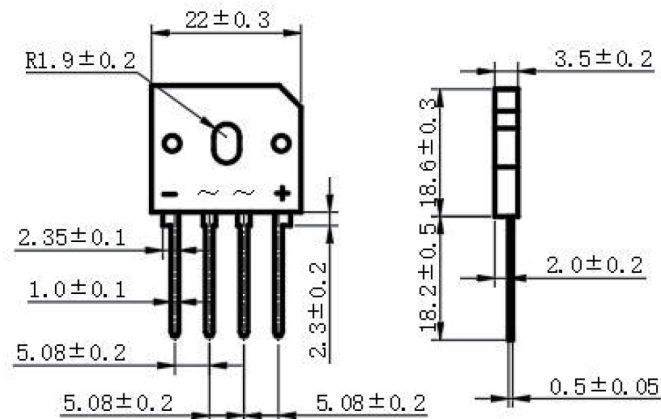


Fig.3 Max Non-Repetitive Surge Current

Outline

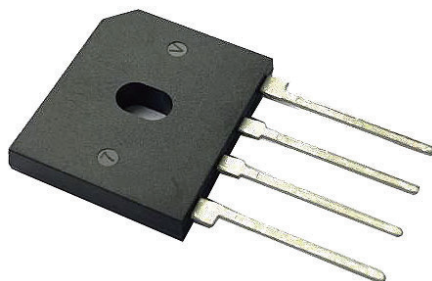


Dimensions in inches (mm)

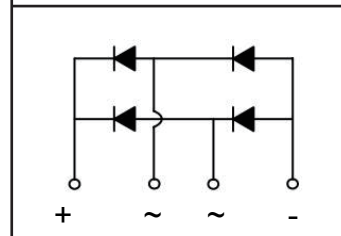
GBU2502 thru GBU2512

Feature

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed: 265°C /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension



Circuit



Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum value

Symbol	Parameter	Rating						Unit
		GBU2502	GBU2504	GBU2506	GBU2508	GBU2510	GBU2512	
VRRM	Reverse peak repetitive voltage	200	400	600	800	1000	1200	V
VRSM	Reverse peak non-repetitive voltage	300	500	700	900	1100	1300	V

Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	25	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	350	A
I ² t	Rating for fusing (t=1~10ms)	612	A ² S
Viso	A.C.50/60Hz;R.M.S.;1min	2000	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	4	g

Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =12.5A, Tj=25°C	1.1	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	0.5	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	4
		total	1

GBU2502 thru GBU2512

Performance Curves

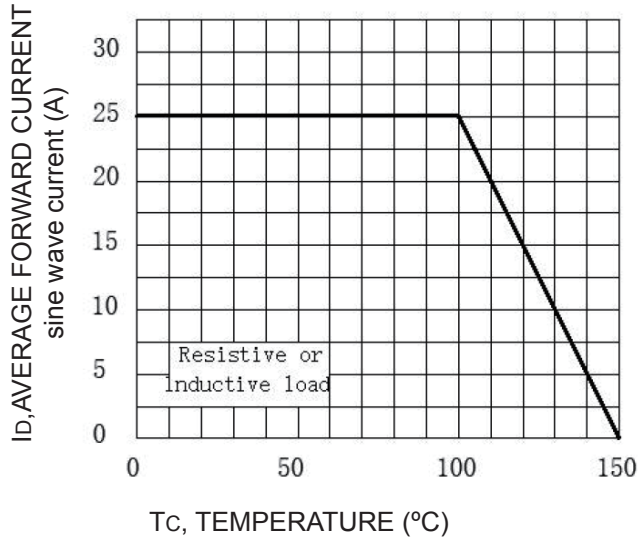


Fig.1 Forward Current Derating Curve

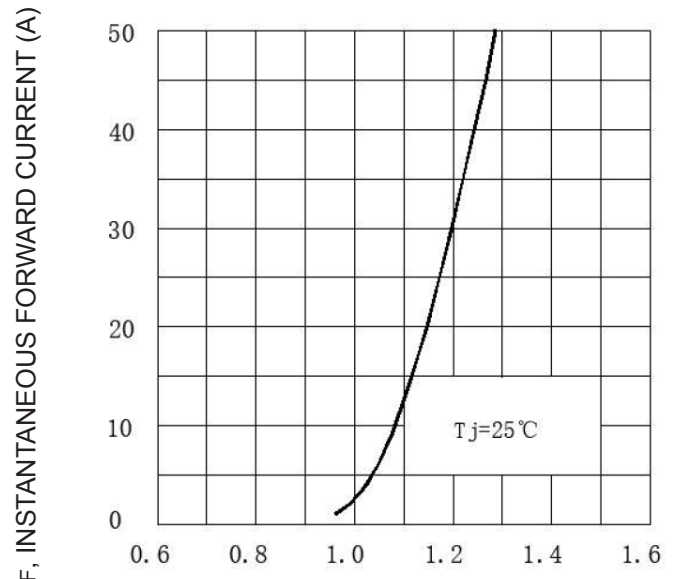


Fig.2 Maximum Forward Characteristics, per element

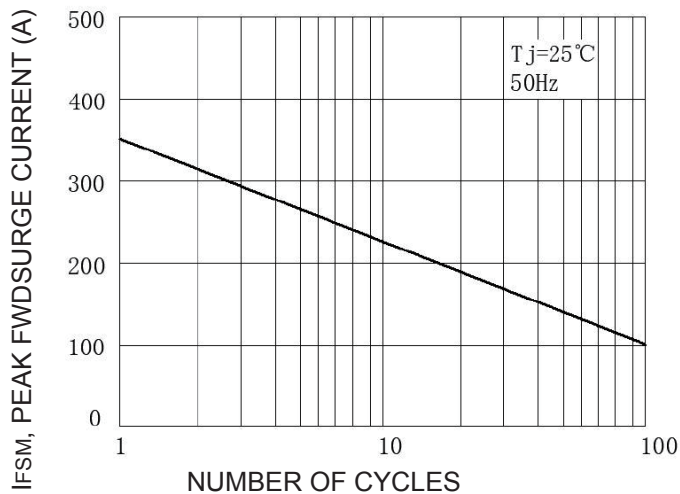
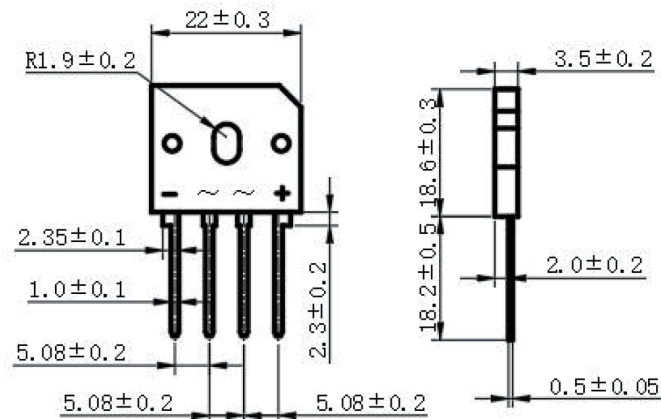


Fig.3 Max Non-Repetitive Surge Current

Outline



Dimensions in inches (mm)

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