

# Index of /ds/GB/

Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>			
 <a href="#">GBPC12.pdf</a>	18-Mar-99 09:38	41K	
 <a href="#">GBPC12005.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1201.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1202.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1204.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1206.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1208.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1210.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC15.pdf</a>	18-Mar-99 09:38	41K	
 <a href="#">GBPC15005.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1501.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1502.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1504.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1506.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1508.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC1510.pdf</a>	22-Dec-99 00:08	41K	
 <a href="#">GBPC25.pdf</a>	18-Mar-99 09:38	41K	
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 <a href="#">GBPC2504.pdf</a>	22-Dec-99 00:08	41K	
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 <a href="#">GBU4B.pdf</a>	22-Dec-99	00:08	56K
 <a href="#">GBU4D.pdf</a>	22-Dec-99	00:08	56K
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 <a href="#">GBU6K.pdf</a>	22-Dec-99	00:08	54K
 <a href="#">GBU6M.pdf</a>	22-Dec-99	00:08	54K
 <a href="#">GBU8A.pdf</a>	22-Dec-99	00:09	52K
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 <a href="#">GBU8D.pdf</a>	22-Dec-99	00:09	52K
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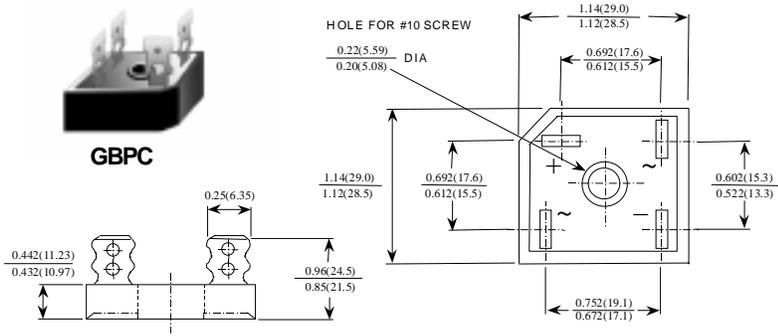
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## GBPC 12, 15, 25, 35 SERIES

### Features

- Integrally molded heatsink provided very low thermal resistance for maximum heat dissipation.
- Surge overload ratings from 300 amperes to 400 amperes.
- Isolated voltage from case to lead over 2500 volts.

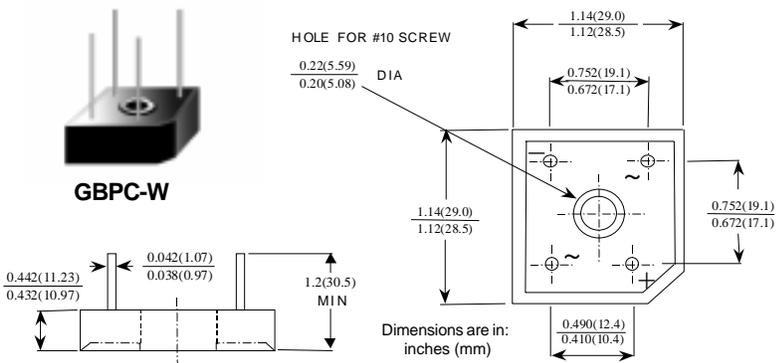


### Suffix "W"

Wire Lead Structure

### Suffix "M"

Terminal Location  
Face to Face



## 12, 15, 25, 35 Ampere Glass Passivated Bridge Rectifiers

### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units
$I_o$	Average Rectified Current @ $T_A = 55^\circ\text{C}$	<b>GBPC12</b> 12 <b>GBPC15</b> 15 <b>GBPC25</b> 25 <b>GBPC35</b> 35	A
$i_{r(\text{surge})}$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	<b>GBPC12, 15, 25</b> 300 <b>GBPC35</b> 400	A
$P_D$	Total Device Dissipation Derate above $25^\circ\text{C}$	83.3 666	W mW/°C
$R_{\theta JL}$	Thermal Resistance, Junction to Lead	1.5	°C/W
$T_{stg}$	Storage Temperature Range	-55 to +150	°C
$T_J$	Operating Junction Temperature	-55 to +150	°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

# Glass Passivated Bridge Rectifiers

(continued)

GBPC 12, 15, 25, 35 SERIES

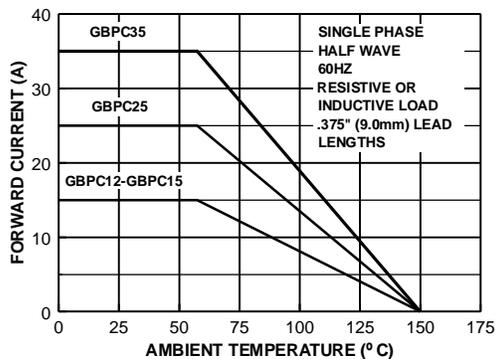
## Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

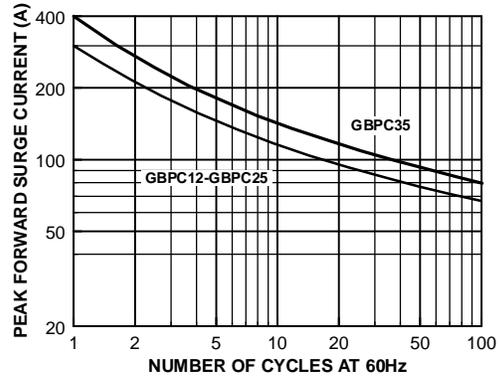
Parameter	Device							Units
	005	01	02	04	06	08	10	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated $V_R$ )	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated $V_R$ $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	5.0 500							$\mu\text{A}$ $\mu\text{A}$
Maximum Forward Voltage Drop, per bridge @ 6.0 A @ 7.5 A @ 12.5 A @ 17.5 A	GBPC12 GBPC15 GBPC25 GBPC35 1.1							V
$I^2t$ rating for fusing $t < 8.3$ ms	GBPC12,15,25 GBPC35 375 660							$\text{A}^2\text{Sec}$ $\text{A}^2\text{Sec}$
Typical Junction Capacitance, per leg $V_R = 4.0\text{V}$ , $f = 1.0$ MHz	GBPC12,15,25 GBPC35 180 200							pF pF

## Typical Characteristics

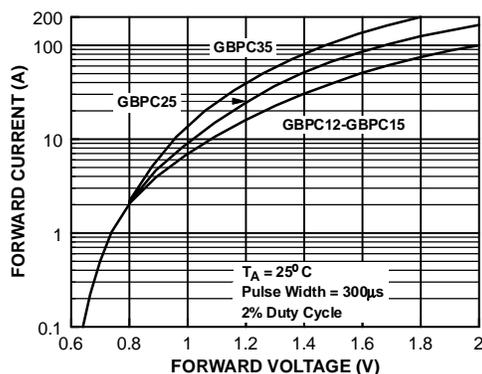
Forward Current Derating Curve



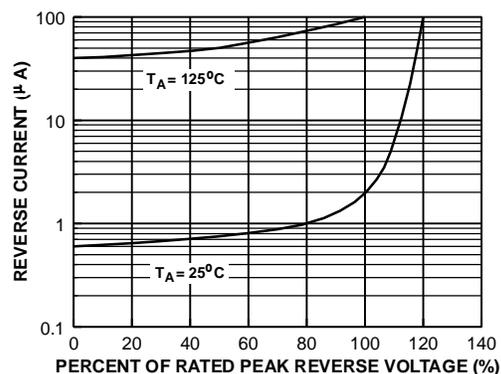
Non-Repetitive Surge Current



Forward Characteristics



Reverse Characteristics



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FACT™	QS™
FACT Quiet Series™	Quiet Series™
FAST®	SuperSOT™-3
FASTr™	SuperSOT™-6
GTO™	SuperSOT™-8
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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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### Definition of Terms

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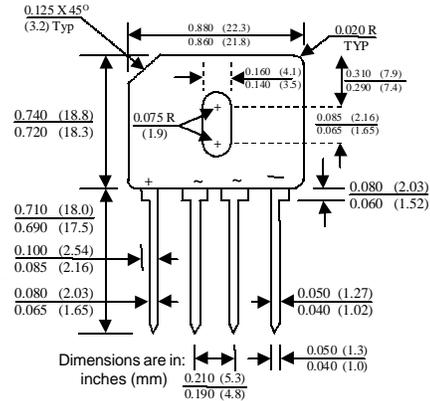
## GBU4A - GBU4M

### Features

- Surge overload rating: 150 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.



GBU



### 4.0 Ampere Bridge Rectifiers

#### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units
$I_O$	Average Rectified Current @ $T_A = 100^\circ\text{C}$	4.0	A
	@ $T_A = 40^\circ\text{C}$	3.0	A
$\hat{i}_f(\text{surge})$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	150	A
$P_D$	Total Device Dissipation	6.9	W
	Derate above $25^\circ\text{C}$	55	mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	19	$^\circ\text{C}/\text{W}$
$T_{stg}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

\* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

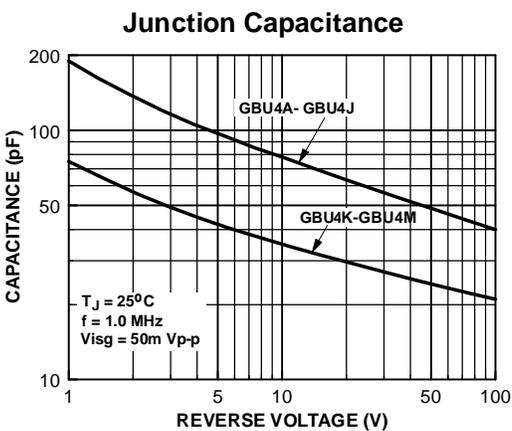
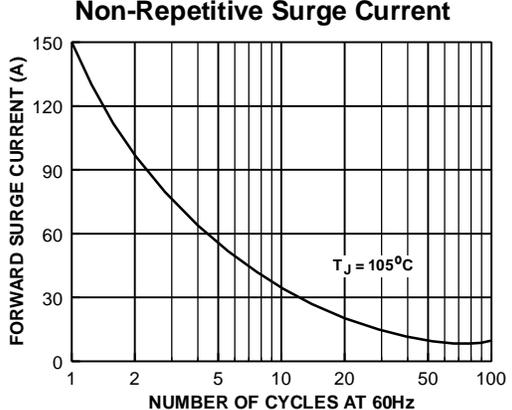
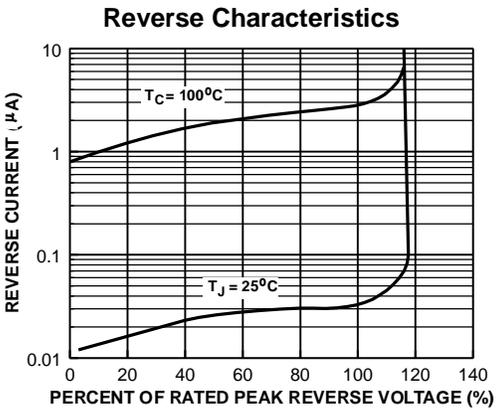
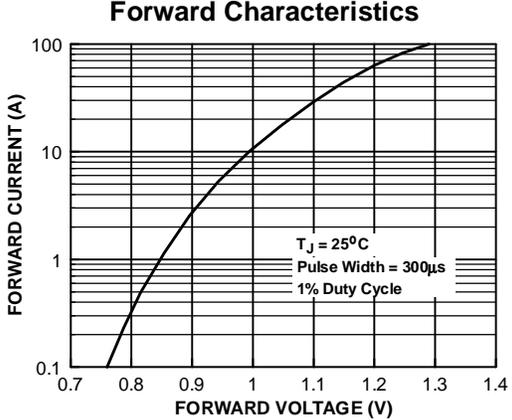
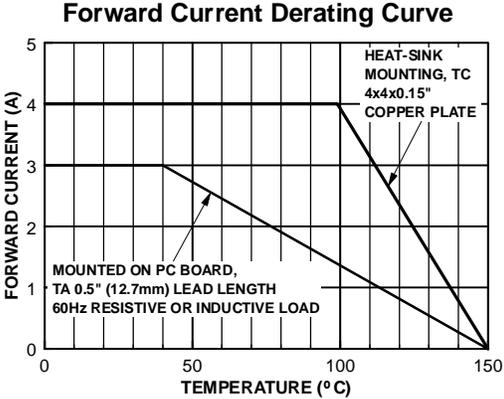
\*\* Device mounted on PCB with  $0.5 \times 0.5"$  ( $12 \times 12 \text{ mm}$ ).

#### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

Parameter	Device							Units	
	4A	4B	4D	4G	4J	4K	4M		
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Input Voltage	35	70	140	280	420	560	700	V	
DC Reverse Voltage (Rated $V_R$ )	50	100	200	400	600	800	1000	V	
Maximum Reverse Leakage, per element @ rated $V_R$								$T_A = 25^\circ\text{C}$	$\mu\text{A}$
								$T_A = 125^\circ\text{C}$	$\mu\text{A}$
Maximum Forward Voltage Drop, per element @ 4.0 A								1.0	V
$I^2t$ rating for fusing $t < 8.35 \text{ ms}$								93	$\text{A}^2\text{Sec}$

Typical Characteristics



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FACT™	QS™
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FAST®	SuperSOT™-3
FASTr™	SuperSOT™-6
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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

## PRODUCT STATUS DEFINITIONS

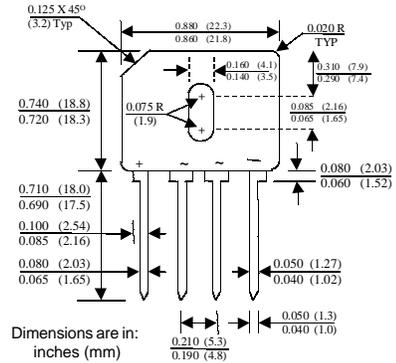
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## GBU6A - GBU6M

### Features

- Surge overload rating: 175 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.



### 6.0 Ampere Bridge Rectifiers

#### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units
$I_o$	Average Rectified Current @ $T_A = 100^\circ\text{C}$	6.0	A
$I_f(\text{surge})$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	175	A
$P_D$	Total Device Dissipation Derate above $25^\circ\text{C}$	14.5	W mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	8.6	$^\circ\text{C}/\text{W}$
$R_{\theta JC}$	Thermal Resistance, Junction to Case,*** per leg	3.1	$^\circ\text{C}/\text{W}$
$T_{\text{stg}}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

\*\* Device mounted on PCB with 0.5 x 0.5" (12 x 12 mm).

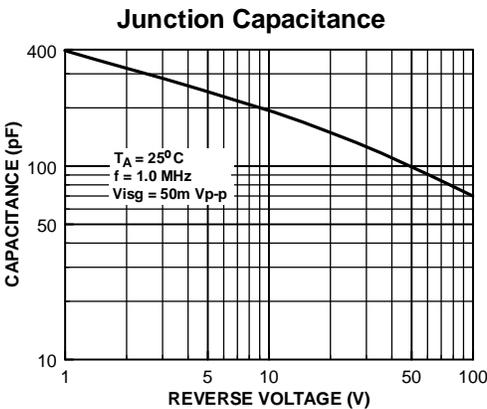
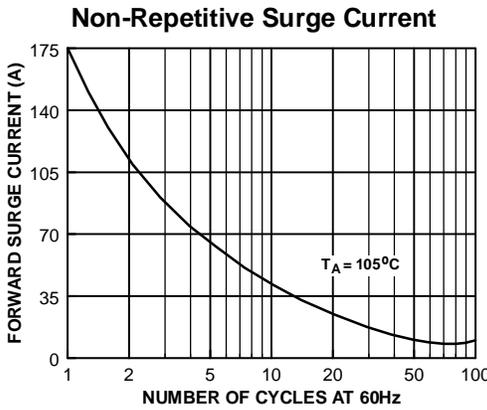
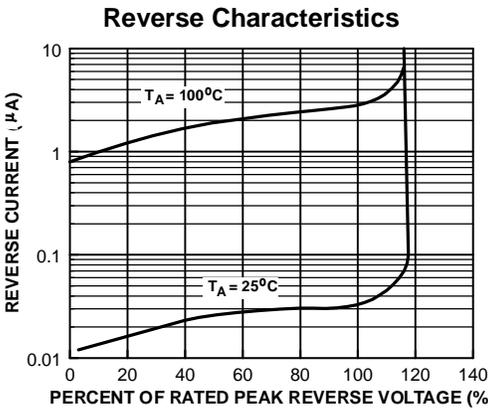
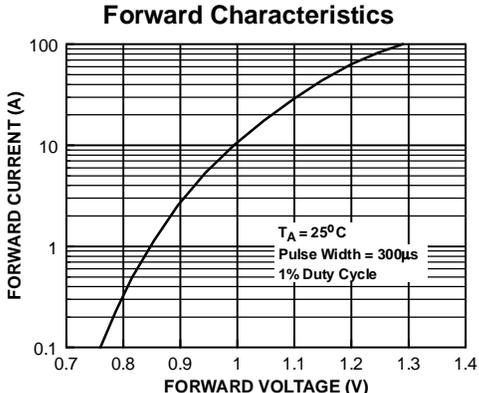
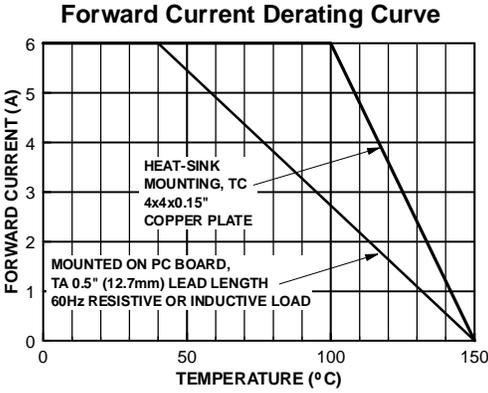
\*\*\* Device mounted on Al plate with 2.6 x 1.4" x 0.06" (6.5 x 3.5 x 0.15 cm).

### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

Parameter	Device							Units	
	6A	6B	6D	6G	6J	6K	6M		
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Input Voltage	35	70	140	280	420	560	700	V	
DC Reverse Voltage (Rated $V_R$ )	50	100	200	400	600	800	1000	V	
Maximum Reverse Leakage, per element @ rated $V_R$									
$T_A = 25^\circ\text{C}$								5.0	$\mu\text{A}$
$T_A = 125^\circ\text{C}$								500	$\mu\text{A}$
Maximum Forward Voltage Drop, per element @ 6.0 A								1.0	V
$I^2t$ rating for fusing $t < 8.35$ ms								127	$\text{A}^2\text{Sec}$

Typical Characteristics



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FASTr™	SuperSOT™-6
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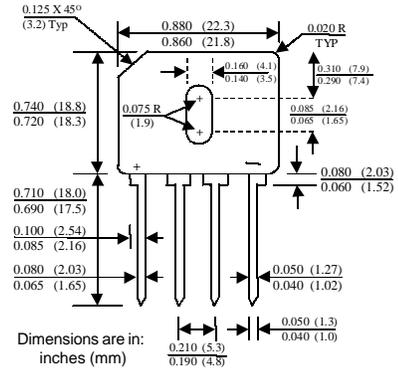
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## GBU8A - GBU8K

### Features

- Surge overload rating: 200 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.



### 8.0 Ampere Bridge Rectifiers

#### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units
$I_o$	Average Rectified Current @ $T_A = 100^\circ\text{C}$ @ $T_A = 45^\circ\text{C}$	8.0 6.0	A A
$i_f(\text{surge})$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	200	A
$P_D$	Total Device Dissipation Derate above $25^\circ\text{C}$	6.9 55	W mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	18	$^\circ\text{C}/\text{W}$
$T_{stg}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

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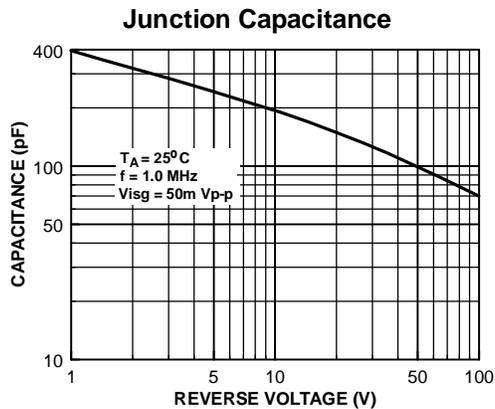
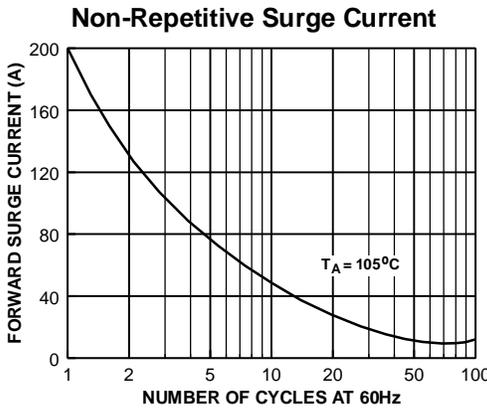
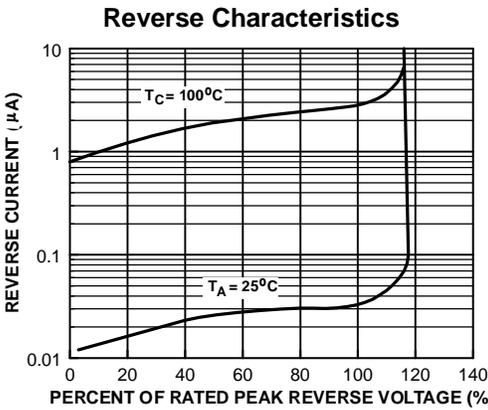
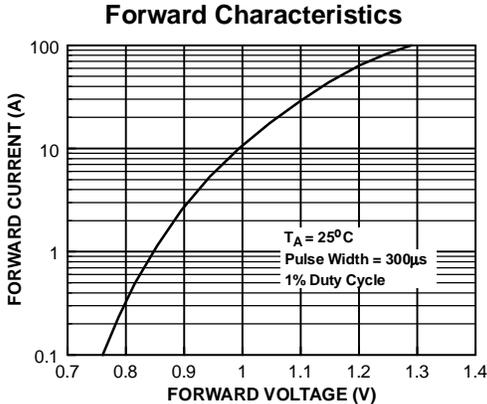
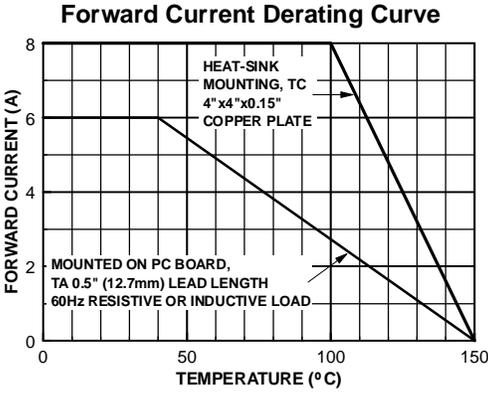
\*\*Device mounted on PCB with  $0.5 \times 0.5"$  ( $12 \times 12$  mm).

#### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

Parameter	Device						Units
	8A	8B	8D	8G	8J	8K	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Input Voltage	35	70	140	280	420	560	V
DC Reverse Voltage (Rated $V_R$ )	50	100	200	400	600	800	V
Maximum Reverse Leakage, per element @ rated $V_R$ $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	5.0 500						$\mu\text{A}$ $\mu\text{A}$
Maximum Forward Voltage Drop, per element @ 8.0 A	1.0						V
$I^2t$ rating for fusing $t < 8.35$ ms	166						$\text{A}^2\text{Sec}$

Typical Characteristics



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## PRODUCT STATUS DEFINITIONS

### Definition of Terms

Datasheet Identification	Product Status	Definition
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