



**America Semiconductor**

**Silicon Bridge  
Rectifier**

**GBU4A thru  
GBU4G**

**$V_{RRM} = 50\text{ V} - 1000\text{ V}$**

**$I_F = 4\text{ A}$**

**Features**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Types up to 1000 V  $V_{RRM}$
- Ideal for printed circuit board
- High surge overload rating
- High temperature soldering guaranteed: 260°C/ 10 seconds, 0.375(9.5mm) lead length
- Glass passivated chip junction
- High case dielectric strength 1500  $V_{RMS}$

**GBU Package**



**Mechanical Data**

Case: Molded plastic body over passivated junctions  
 Mounting position: Any  
 Terminals: Plated leads, solderable per MIL-STD-750  
 Method 2026 guaranteed

**Maximum ratings, at  $T_j = 25\text{ °C}$ , unless otherwise specified**

Parameter	Symbol	Conditions	GBU4A	GBU4B	GBU4D	GBU4G	Unit
Repetitive peak reverse voltage	$V_{RRM}$		50	100	200	400	V
RMS reverse voltage	$V_{RMS}$		35	70	140	280	V
DC blocking voltage	$V_{DC}$		50	100	200	400	V
Continuous forward current	$I_F$	$T_C \leq 100\text{ °C}$	4	4	4	4	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$ , $t_p = 8.3\text{ ms}$	150	150	150	150	A
Operating temperature	$T_j$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

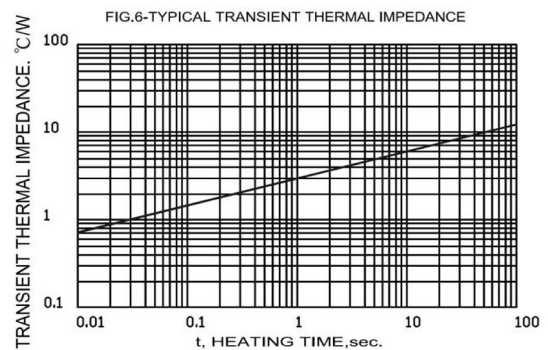
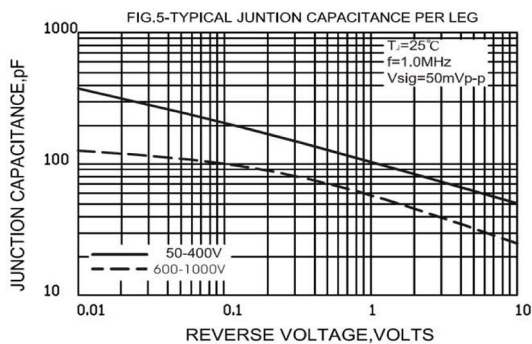
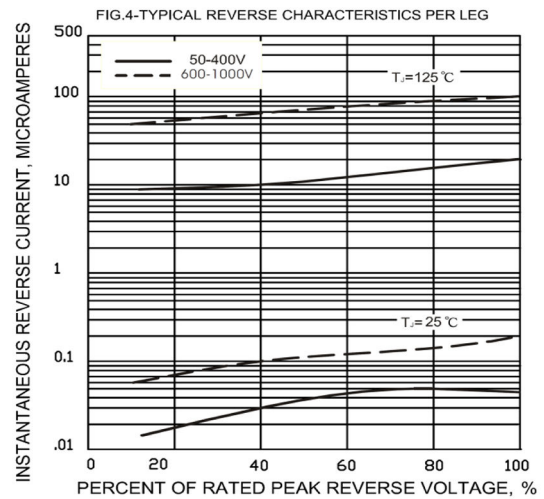
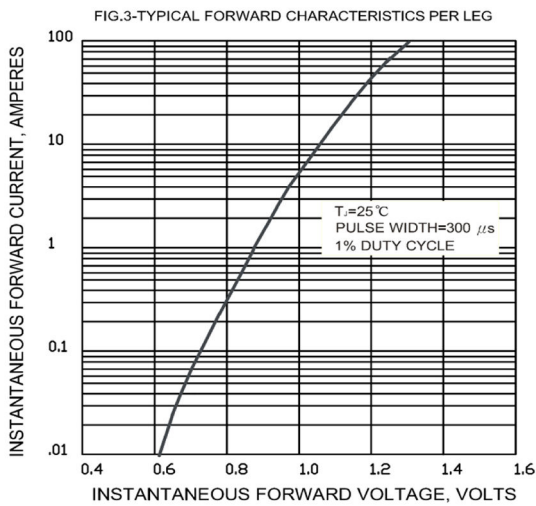
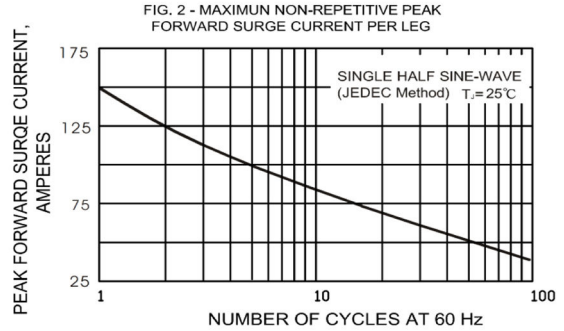
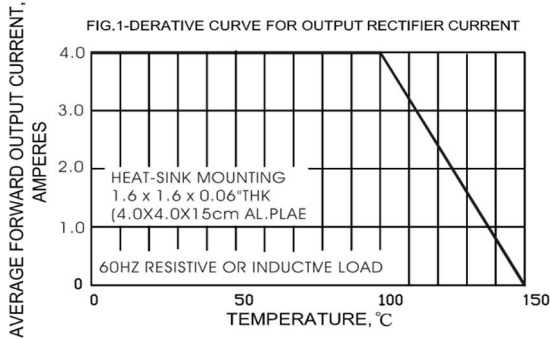
**Electrical characteristics, at  $T_j = 25\text{ °C}$ , unless otherwise specified**

Parameter	Symbol	Conditions	GBU4A	GBU4B	GBU4D	GBU4G	Unit
Diode forward voltage	$V_F$	$I_F = 4\text{ A}$ , $T_j = 25\text{ °C}$	1.1	1.1	1.1	1.1	V
Reverse current	$I_R$	$V_R = 50\text{ V}$ , $T_j = 25\text{ °C}$ $V_R = 50\text{ V}$ , $T_j = 125\text{ °C}$	5 500	5 500	5 500	5 500	$\mu\text{A}$

**Thermal characteristics**

Parameter	Symbol	Conditions	GBU4A	GBU4B	GBU4D	GBU4G	Unit
Thermal resistance, junction - case	$R_{thJA}$ $R_{thJL}$		22.0 4.2	22.0 4.2	22.0 4.2	22.0 4.2	°C/W







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