



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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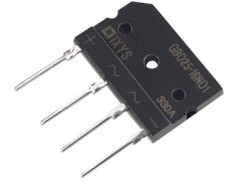
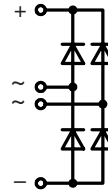
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# Single Phase Rectifier Bridge

$I_{dAV} = 25 \text{ A}$   
 $V_{RRM} = 1200-1600 \text{ V}$

$V_{RSM}$ V	$V_{RRM}$ V	Standard Types
1300	1200	GBO 25-12NO1
1700	1600	GBO 25-16NO1



Symbol	Conditions	Maximum Ratings	
$I_{dAVM}$ ①	$T_C = 80^\circ\text{C}$ , sine 180°	25	A
$I_{dAVM}$ ②	$T_C = 25^\circ\text{C}$ , sine 180°	5	A
$I_{FSM}$	$T_{VJ} = 45^\circ\text{C}$ ; $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	370 A 390 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	320 A 340 A
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	680 A <sup>2</sup> s 640 A <sup>2</sup> s
	$T_{VJ} = T_{VJM}$ $V_R = 0$	t = 10 ms (50 Hz), sine t = 8.3 ms (60 Hz), sine	510 A <sup>2</sup> s 470 A <sup>2</sup> s
$T_{VJ}$		-40...+150	°C
$T_{VJM}$		150	°C
$T_{stg}$		-40...+125	°C
$P_{tot}$		16	W
$M_d$ Weight	Mounting torque (M3) typ.	0.5-0.8 7	Nm g

### Features

- $V_{RRM}$  up to 1600 V
- Low forward voltage drop
- Planar passivated chips
- Low forward voltage drop
- Epoxy meets UL 94V-0

### Applications

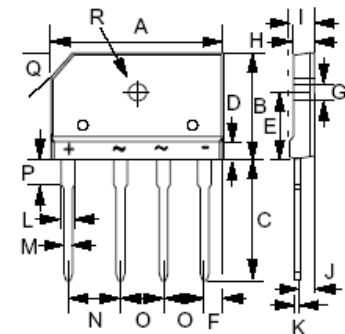
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

### Advantages

- Easy to mount with one screw
- Space and weight savings

Symbol	Conditions	Characteristic Values	
$I_R$	$V_R = V_{RRM}$ ; $T_{VJ} = 25^\circ\text{C}$	≤ 0.05	mA
	$V_R = V_{RRM}$ ; $T_{VJ} = T_{VJM}$	≤ 1.5	mA
$V_F$	$I_F = 12.5 \text{ A}$ ; $T_{VJ} = 25^\circ\text{C}$	≤ 1.1	V
$V_{T0}$	For power-loss calculations only	0.89	V
$r_T$	$T_{VJ} = T_{VJM}$	12.2	mΩ
$R_{thJC}$	per diode, DC current	4.3	K/W
	per module	1.1	K/W
$R_{thJA}$	per diode, DC current	50	K/W
	per module	12.5	K/W
$d_{S1}, d_{A1}$	Creeping/Striking distance leads to heatsink	2.9	mm
$d_{S1}, d_{A1}$	Creeping/Striking distance lead to lead	5.6	mm
$a$	Max. allowable acceleration	50	m/s <sup>2</sup>

Data according to IEC 60747 and refer to a single diode unless otherwise stated  
 $I_{dAVM}$  = bridge output current for resistive load ① mounted on heatsink; ② without heatsink



DIM.	MIN.	MAX.
A	29.70	30.30
B	19.70	20.30
C	17.0	18.0
D	4.70	4.90
E	10.80	11.20
F	2.30	2.70
G	3.10	3.40
H	3.40	3.80
I	4.40	4.80
J	2.50	2.90
K	0.60	0.80
L	2.00	2.40
M	0.90	1.10
N	9.80	10.20
O	7.30	7.70
P	3.80	4.20
Q	(3.0) x 45°	
R	3.10 ∅	3.40 ∅

All Dimensions in millimeter

IXYS reserves the right to change limits, test conditions and dimensions.