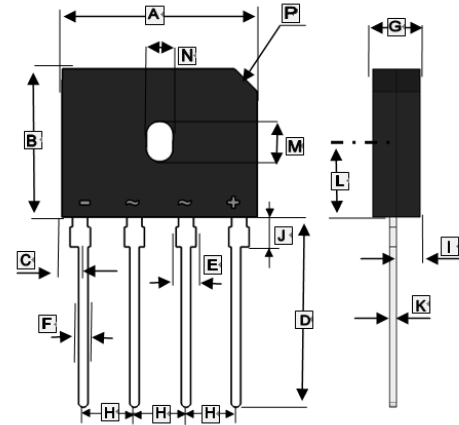


RoHS Compliant Product

## FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory flammability classification 94V-0
- Mounting position: Any
- These are Halogen & Pb Free components
- This series is UL recognized under Component Index, file number E255340

GBU



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	21.7	22.3	I	1.8	2.2
B	18.2	18.8	J	1.8	2.2
C	3.15	3.55	K	0.4	0.6
D	17.5	18.5	L	9.9	10.1
E	1.8	2.2	M	5.2	5.8
F	0.9	1.2	N	3.3	3.8
G	3.4	3.8	P	3 x 45°	
H	5	5.2			

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number				Unit
		S6GBU20-C	S6GBU40-C	S6GBU60-C	S6GBU80-C	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	V
Average Rectified Output Current @50HZ sine wave, R-load	$T_C=110^\circ\text{C}$ (with heat sink)	6				A
	$T_A=25^\circ\text{C}$ (without heat sink)	2.8				
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, $T_A=25^\circ\text{C}$	$I_{FSM}$	175				A
Maximum Peak Forward Voltage <sup>3</sup>	$V_{FM}$	1				V
Peak Reverse Current <sup>2</sup>	$I_{RRM}$	5				$\mu\text{A}$
$I^2t$ Rating for Fusing @1ms $\leq t < 8.3\text{ms}$ , $T_J=25^\circ\text{C}$ , Rating of per diode	$I^2t$	127				$\text{A}^2\text{s}$
Mounting Torque @ Recommend torque:5kg·cm	TOR	8				Kg · cm
Dielectric Strength <sup>1</sup>	$V_{dis}$	2				kV
Typical Thermal Resistance (with heat sink)	$R_{\theta JC}$	5				$^\circ\text{C/W}$
Typical Thermal Resistance(without heat sink)	$R_{\theta JA}$	22				$^\circ\text{C/W}$
Typical Thermal Resistance(without heat sink)	$R_{\theta JL}$	4				$^\circ\text{C/W}$
Operating and Storage temperature range	$T_J, T_{STG}$	150, -40~150				$^\circ\text{C}$

Notes :

1. Terminals to case · AC 1 minute
2.  $V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode.
3.  $I_{FM}=6.0\text{A}$ , Pulse measurement, Rating of per diode

**RATINGS AND CHARACTERISTIC CURVES**

