

RoHS Compliant Product

FEATURES

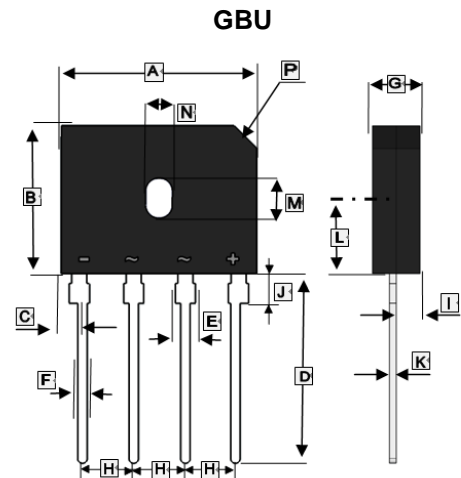
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory flammability classification 94V-0
- Mounting position: Any
- These are Halogen & Pb Free components
- This series is UL recognized under Component Index,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

APPLICATIONS

- General Purpose 1 Phase Bridge Rectifier Applications

ORDER INFORMATION

Part Number	Type
S10GBU20-C~S10GBU80-C	Lead (Pb)-free and Halogen-free



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

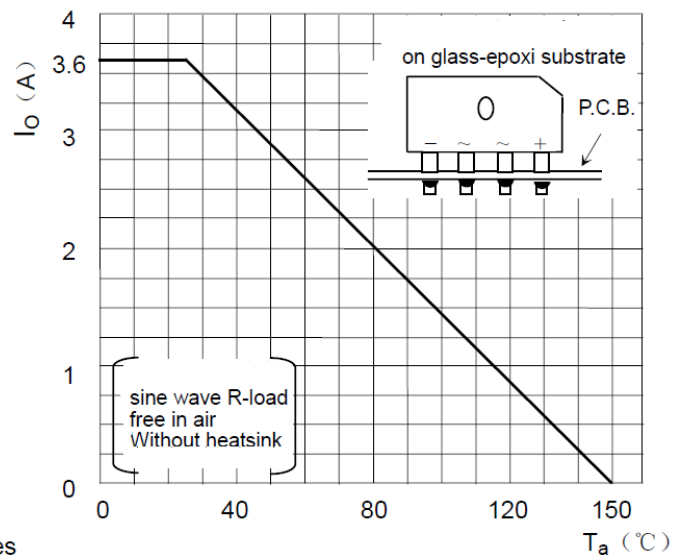
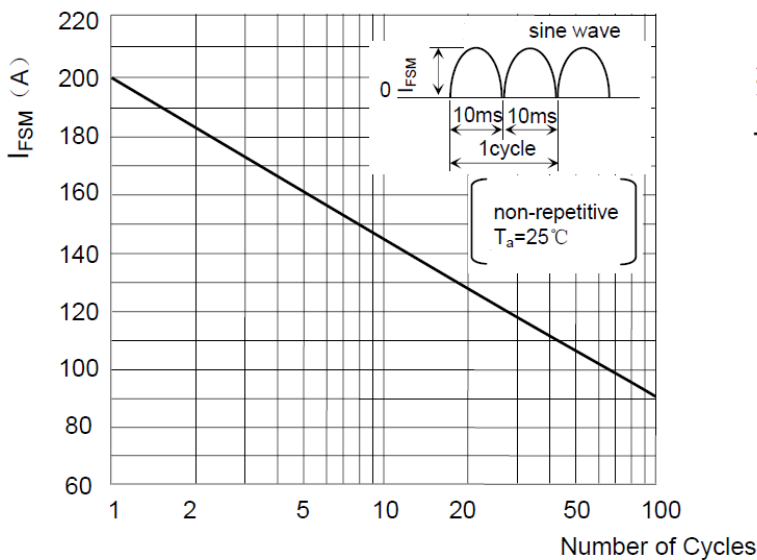
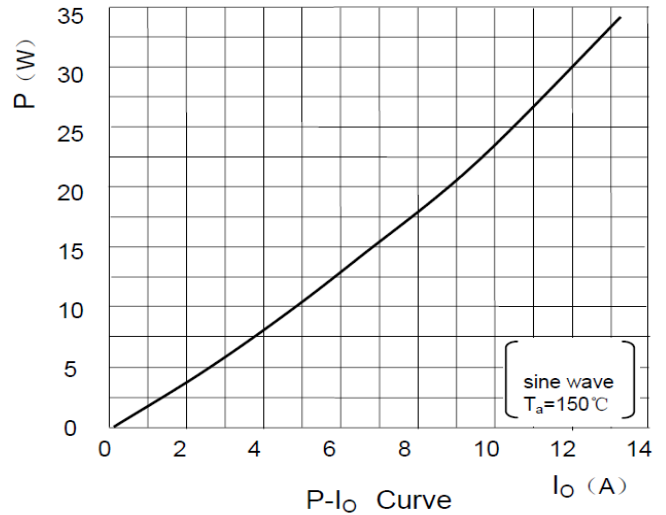
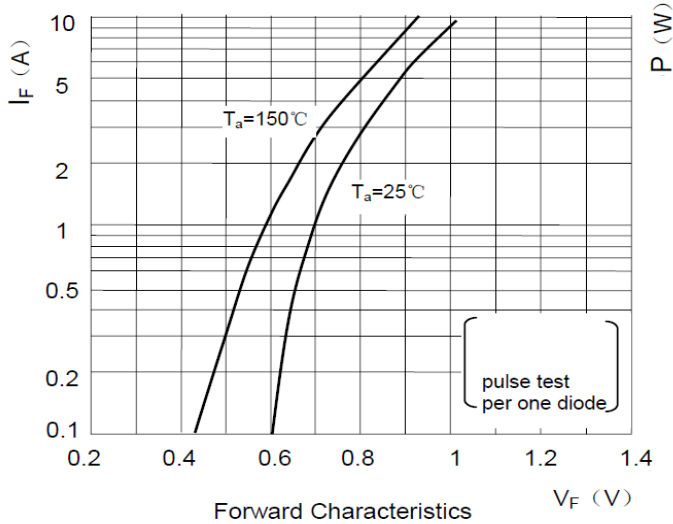
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number				Unit
		S10GBU20-C	S10GBU40-C	S10GBU60-C	S10GBU80-C	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Average Rectified Output Current @50HZ sine wave, R-load	$T_C=100^\circ\text{C}$ (with heat sink)	10				A
	$T_A=25^\circ\text{C}$ (without heat sink)	3.6				
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, $T_A=25^\circ\text{C}$	I_{FSM}	200				A
Maximum Peak Forward Voltage ³	V_{FM}	1.1				V
Peak Reverse Current ²	I_{RRM}	5				μA
I^2t Rating for Fusing @1ms≤t<10ms, $T_J=25^\circ\text{C}$, Rating of per diode	I^2t	166				A^2s
Mounting Torque @ Recommend torque:5kg·cm	TOR	8				Kg · cm
Dielectric Strength ¹	V_{dis}	2				kV
Typical Thermal Resistance (with heat sink)	$R_{\theta JC}$	4.8				$^\circ\text{C/W}$
Typical Thermal Resistance(without heat sink)	$R_{\theta JA}$	21				$^\circ\text{C/W}$
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. $I_{FM}=10.0\text{A}$, Pulse measurement, Rating of per diode

RATINGS AND CHARACTERISTIC CURVES



Surge Forward Current Capability

