Bridge Rectifier

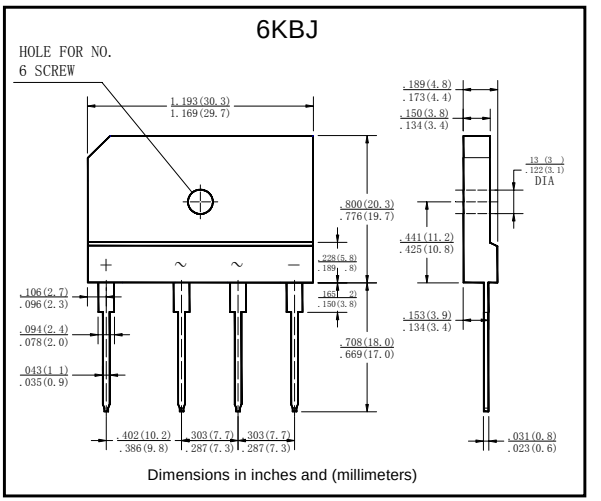
■ Features

- I_o 10A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions



Dimensions in inches and (millimeters)

■ Limiting Values（Absolute Maximum Rating）

Item	Symbol	Unit	Conditions		GBJ10						
					005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V			50	100	200	400	600	800	1000
Average Rectified Output Current	I_O	A	60Hz sine wave, R-load	With heatsink Tc=100℃	10						
				Without heatsink T_a =25℃	3.6						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_j=25℃		170						
Current Squared Time	I^2t	A^2S	1ms≤t<8.3ms Tj=25℃，Rating of per diode		120						
Storage Temperature	T_{stg}	℃			-55 ~+150						
Junction Temperature	T_j	℃			-55 ~+150						
Dielectric Strength	V_{dis}	KV	Terminals to case，AC 1 minute		2.5						
Mounting Torque	Tor	kg • cm	Recommend torque：5kg • cm		8						

■ Electrical Characteristics（T_a =25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=5.0A, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I_{RRM}	uA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	℃/W	Between junction and ambient, Without heatsink	25
	$R_{\theta J-C}$		Between junction and case, With heatsink	2.3

■ Characteristics(Typical)

FIG1:Io-Tc Curve

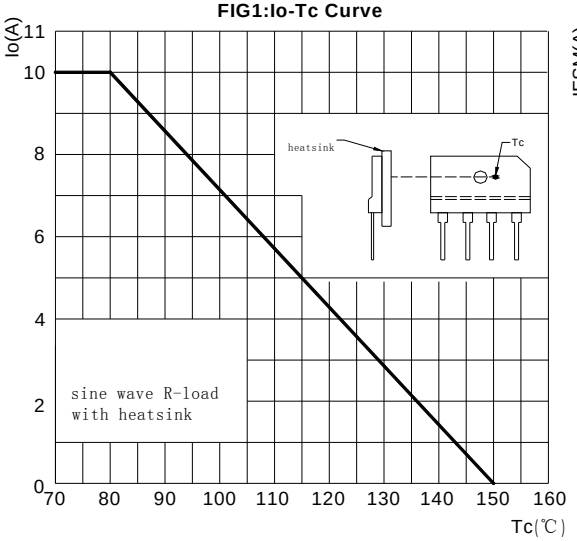


FIG2:Surge Forward Current Capadility

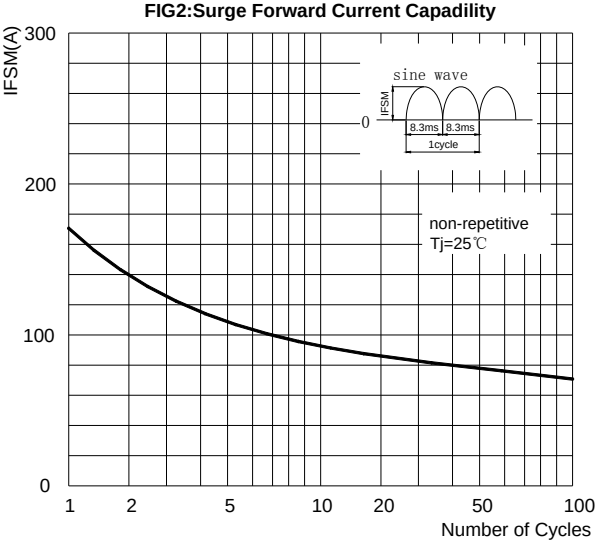


FIG3: Forward Voltage

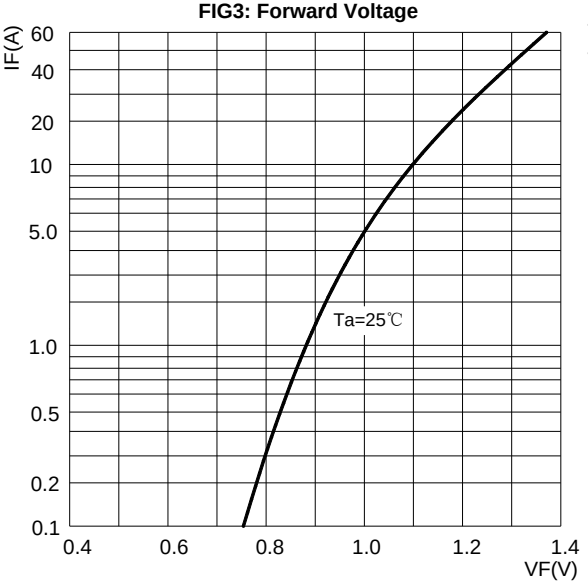


FIG4:Typical Reverse Characteristics