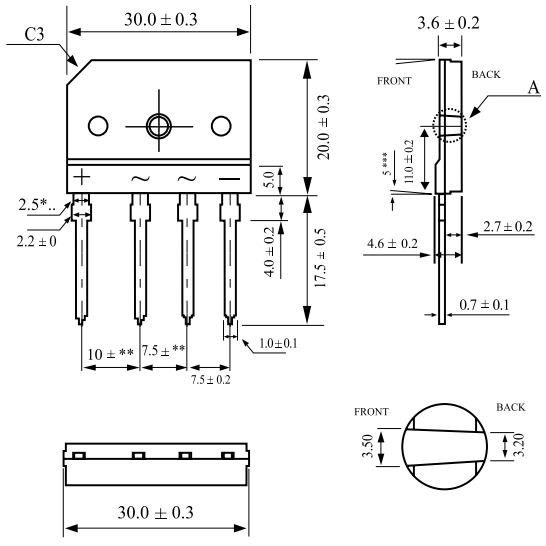
GBJ6J

Single-Phase Bridge Rectifier

FEATURES

- Ideal for printed circuit boards.
- Low forward voltage drop, high current capability.
- The Plastic material has Underwriters Laboratory Flammability Classification 94V-0.
- Rating to 600V PRV.

[Unit:mm]

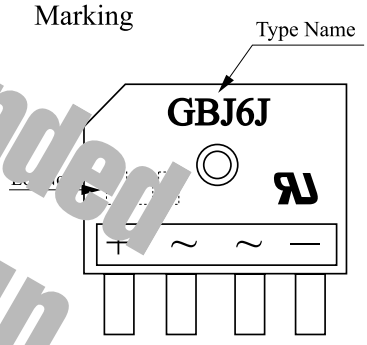


GBJ(5S)

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive peak reverse voltage	V_{RRM}	600	V
RMS voltage	V_{RMS}	420	V
DC blocking voltage	V_{DC}	600	V
Average forward rectified output current (T_C=110℃)	$I_{F(AV)}$	6	A
Peak forward surge current	[illegible]	170	A
Rating for fusing (t<8.3ms)	I^2t	120	A^2sec
Operating Junction	Tj	[illegible]	℃
Storage Temperature Range	Tstg	-5[illegible]	℃

Marking



ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Forward voltage		V_F	I_F=3.0A	-	-	1.0	V
Leakage current	Ta=25℃	I_R	V_R=600V	-	-	5	μA
	Ta=125℃			-	-	500	
Junction capacitance		C_J	V_R=4.0V, f=1.0MHz	-	55	-	pF
Thermal resistance (Note1)		R_{th}(C)	Junction to case	-	-	3.4	℃/W

Note 1) Device mounted on 90mm×90mm×1.5mm Al plate heatsink.

Fig.1 Forward Current Derating Curve

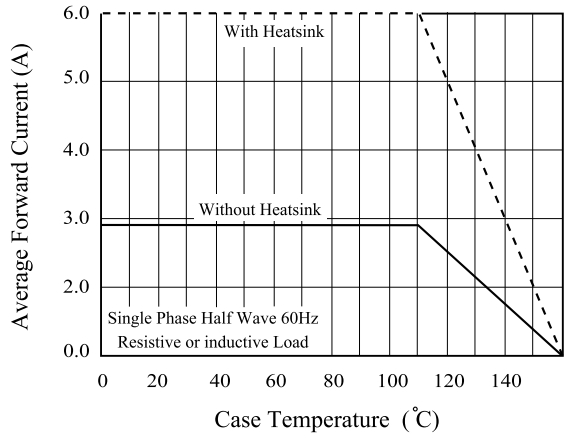


Fig.2 Maximum Non-Repetitive Surge Current

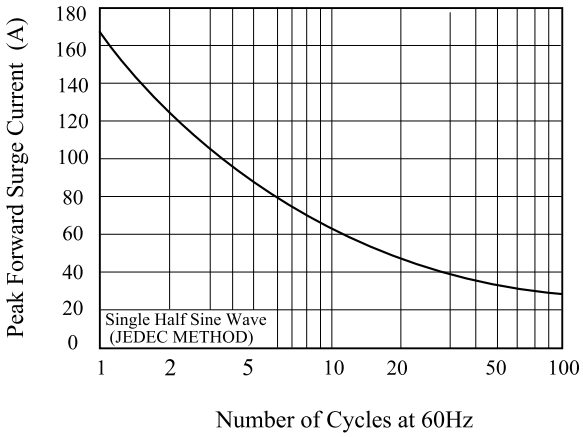


Fig.3 Typical Junction Capacitance

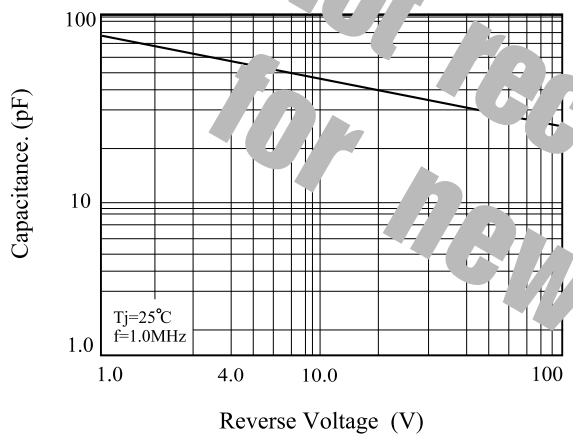


Fig.4 Typical Forward Characteristics

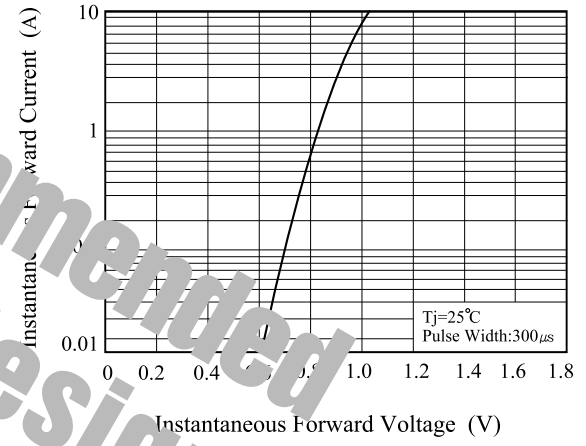


Fig.5 Typical Reverse Characteristics