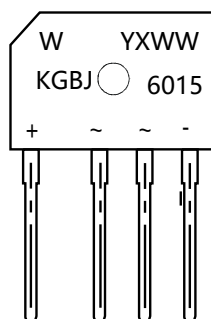


60A Surface Mount Schottky Bridge Rectifier



PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 150 V
- Forward Current - 60A
- High Surge Current Capability

Benefits

- Case: GBJ
- Terminals: Solderable Per MIL-STD-750

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	KGBJ6015	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	150	V
Maximum RMS voltage	VRMS	105	V
Maximum DC Blocking Voltage	VDC	150	V
Average Rectified Output Current	I _o	60.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	240	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	239	A ² S
Maximum Forward Voltage at 3.0A	VF	0.65	V
Maximum Forward Voltage at 30.0A		0.90	
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	20 10	μA mA
Typical Junction Capacitance (Note1)	Cj	50	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Mounted on glass epoxy PC board with 4 × 1.5" × 1.5" (3.81 × 3.81 cm) copper pad.

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Average Rectified Output Current Derating Curve

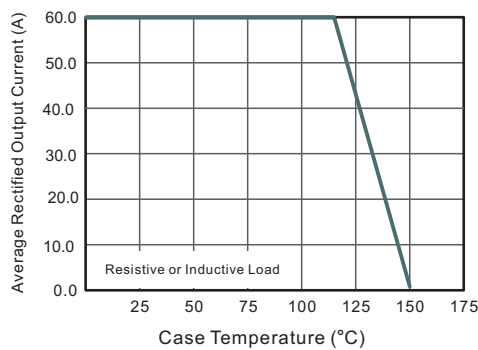


Fig.2 Typical Reverse Characteristics

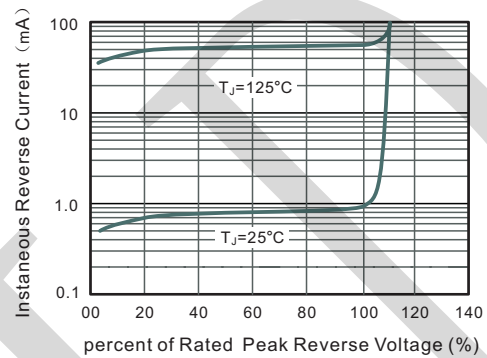


FIG.3- TYPICAL FORWARD CHARACTERISTICS

Current Derating, Case

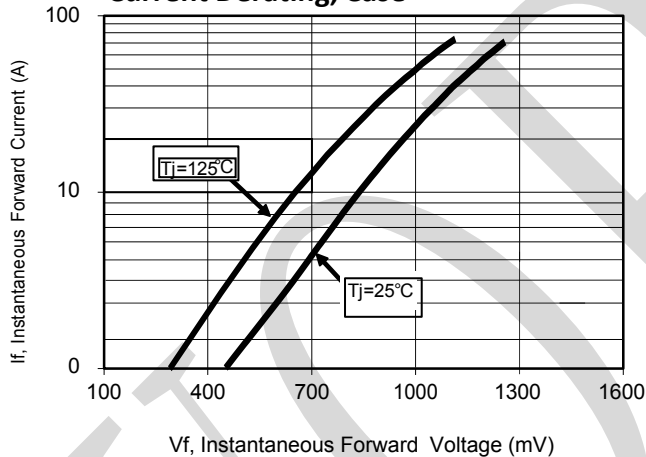


Fig.4 Typical Junction Capacitance

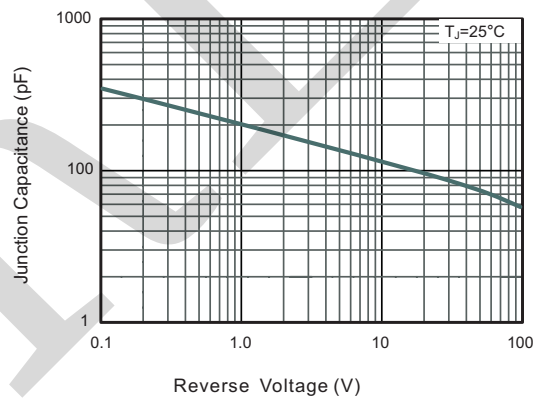
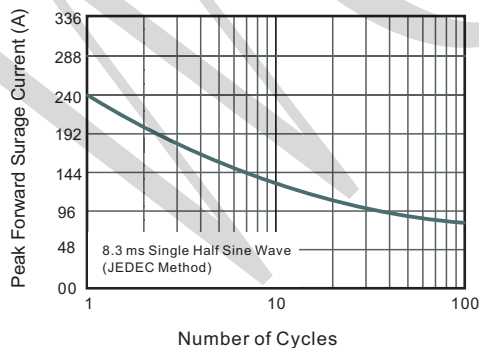
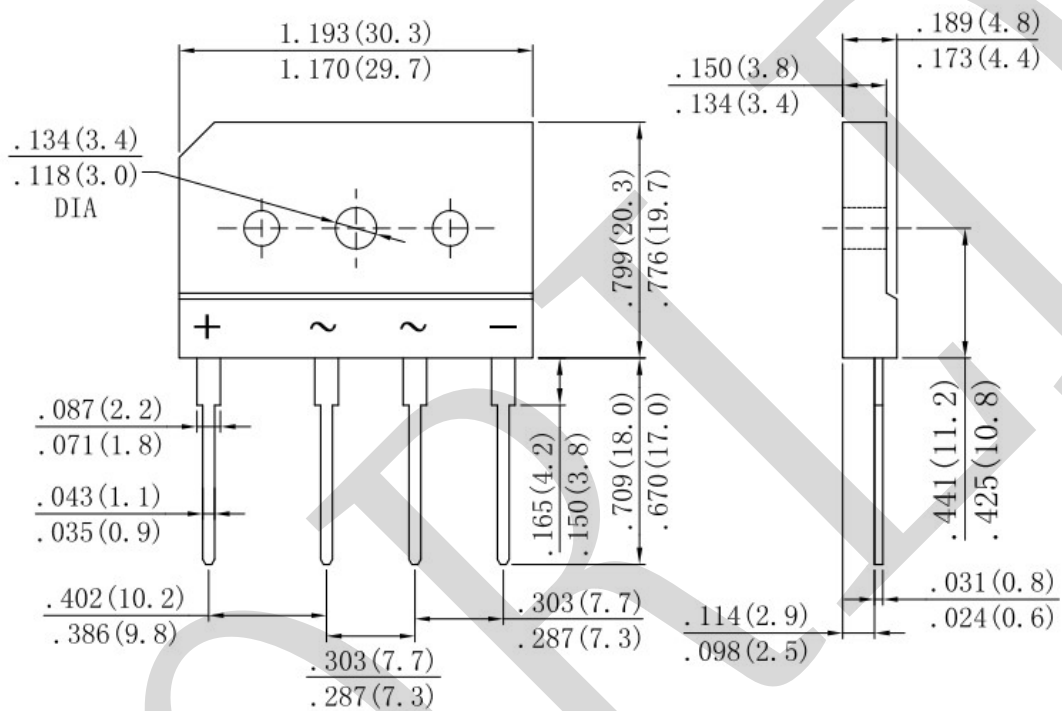


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE DIMENSIONS



Dimensions in inches and (millimeters)