

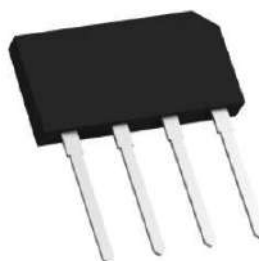
GBL Plastic-Encapsulate Bridge Rectifier

Bridge Rectifier

Features

- $I_{F(AV)}$ 6A
- V_{RRM} 50V-1000V
- Low forward voltage
- Low leakage current

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Applications

- General purpose Bridge rectifier applications

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	GBL6					
				01	02	03	04	06	08 10
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800 1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560 700
Average Rectified Output Current	I_O	A	60Hz sine wave, R-load, $T_a=50^{\circ}\text{C}$	6.0					
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz half sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$	150					

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=6.0\text{A}$, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	5
Operating Temperature Range	T_c	$^{\circ}\text{C}$		-55 — +150
Storage Temperature Range	T_J			-55 — +150
Thermal Resistance	R_{JA}	$^{\circ}\text{C/W}$		5
Typical Junction Capacitanc	C_J	pF	Measured at 1.0MHz and applied reverse voltage of 4.0V DC.	42

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

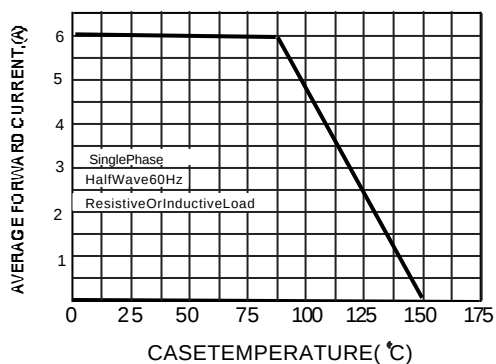


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

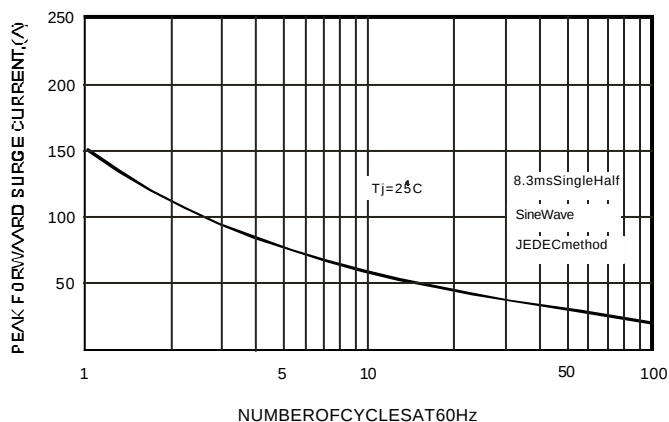


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

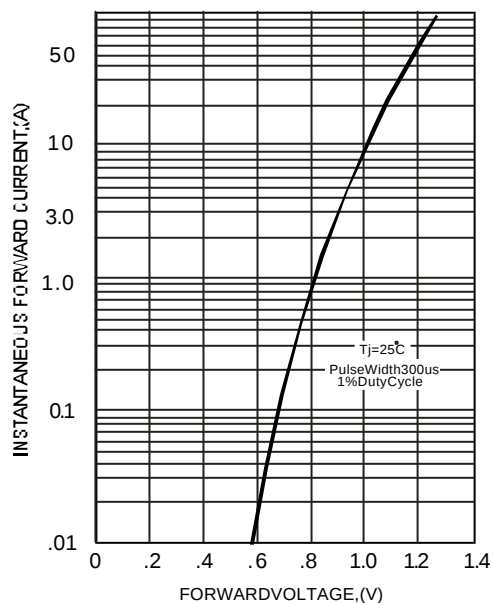
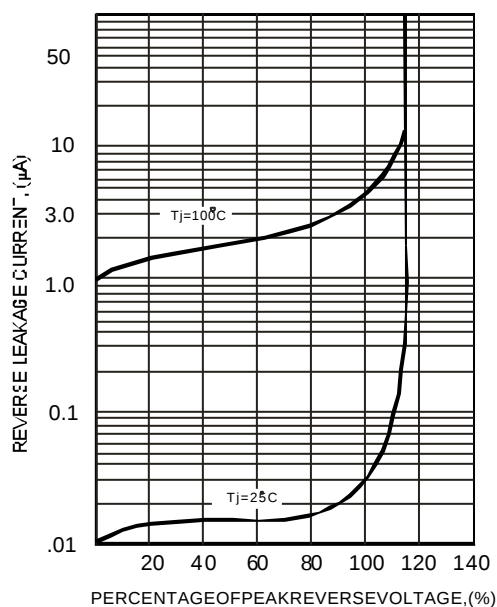


FIG.4-TYPICAL REVERSE
CHARACTERISTICS



GBL Package Outline Dimensions

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