



**JBSL Plastic-Encapsulate Bridge Rectifier**

**JBSL510** General Purpose Bridge Rectifier

**Features**

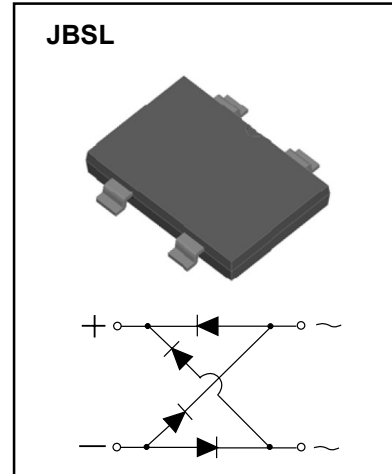
- $I_{F(AV)}$  5A
- $V_{RRM}$  1000V
- High surge current capability
- Glass passivated chip

**Applications**

- General purpose 1 phase Bridge rectifier applications

**Marking**

- JBSL510



**Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	JBSL510
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		1000
Maximum RMS Voltage	$V_{RMS}$	V		700
Maximum DC Blocking Voltage	$V_{RRM}$	V		1000
Average Rectified Output Current	$I_o$	A	60Hz sine wave, R-load, $T_c=80^\circ\text{C}$ On alumina substrate	5.0
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	8.3ms sine wave, 1 cycle, $T_j=25^\circ\text{C}$	150
Current Squared Time	$I^2t$	$\text{A}^2\text{S}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode	93
Operation Junction and Storage Temperature Range	$T_j, T_{stg}$	$^\circ\text{C}$		-55 ~+150

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

Item	Symbol	Unit	Test Condition	JBSL510
Maximum Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=5.0\text{A}$ , Pulse measurement, Rating of per diode	1.1
Maximum Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$ , $T_a=25^\circ\text{C}$	5
			$V_{RM}=V_{RRM}$ , $T_a=100^\circ\text{C}$	100
Typical junction capacitance	$C_j$	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C.	50
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient, On alumina substrate	60

# Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

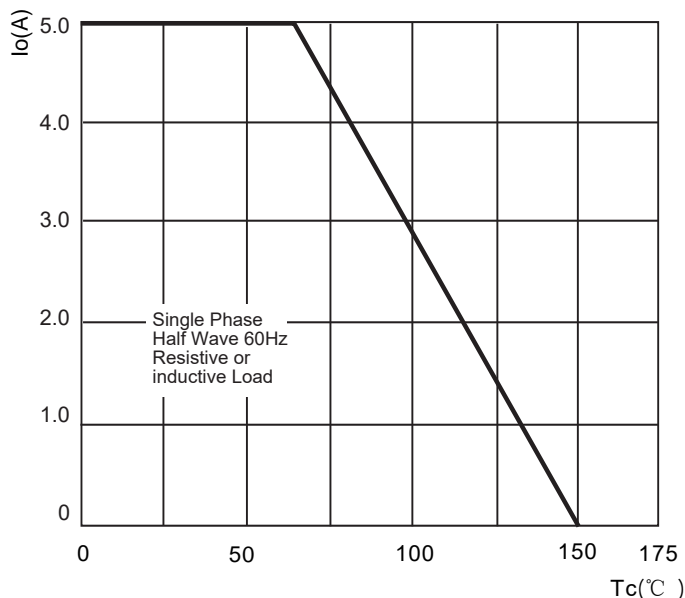


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

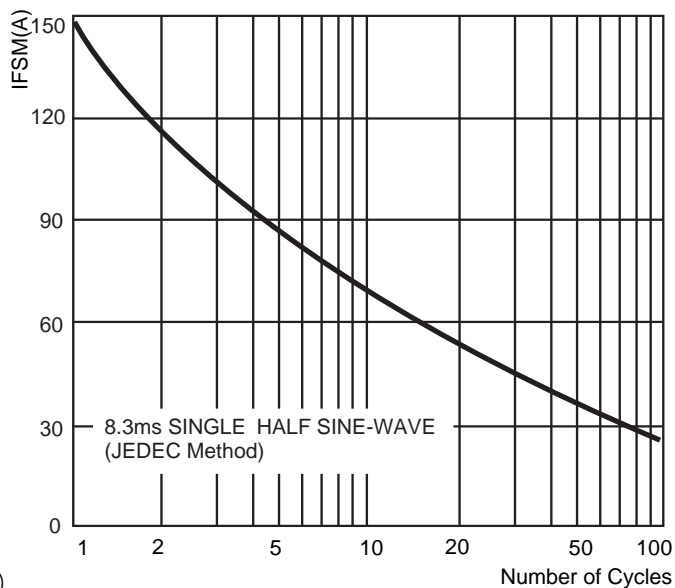


FIG.3: TYPICAL FORWARD CHARACTERISTICS

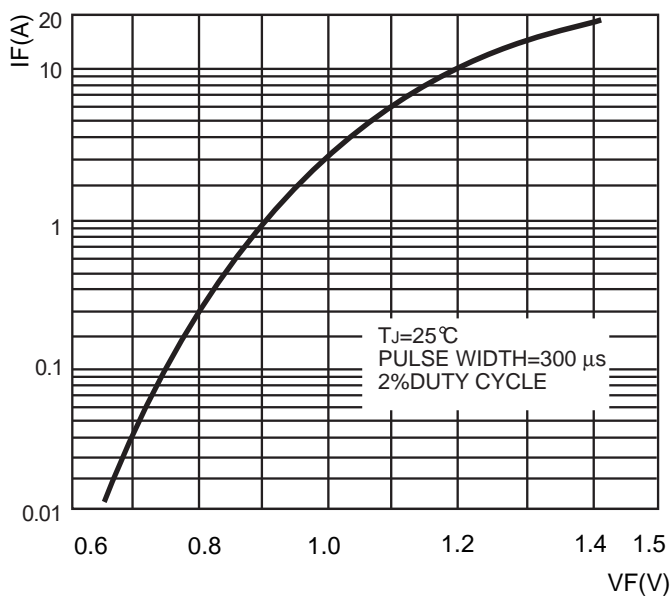
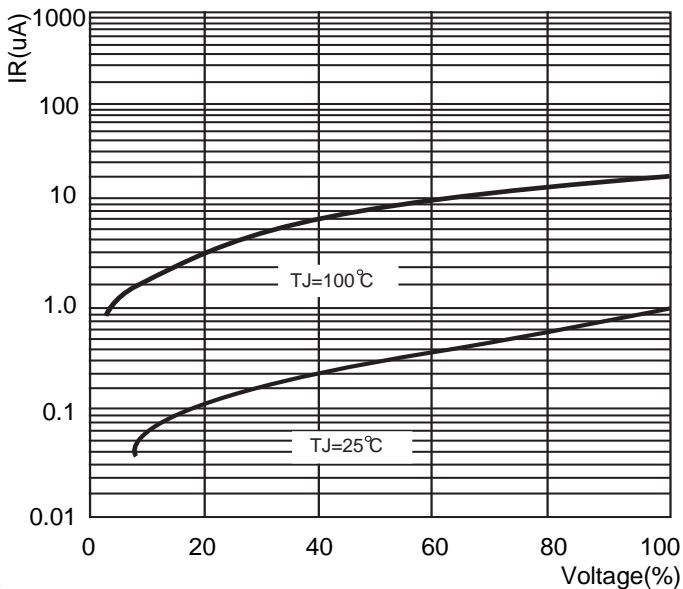
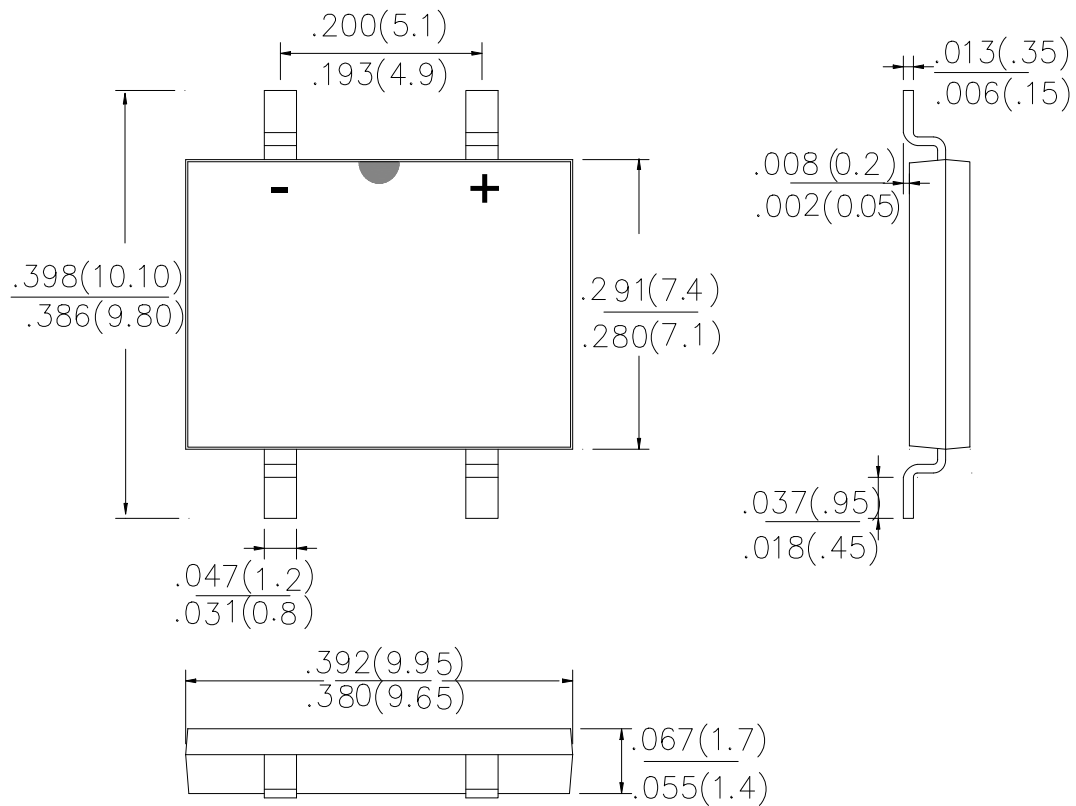


FIG.4: TYPICAL REVERSE CHARACTERISTICS

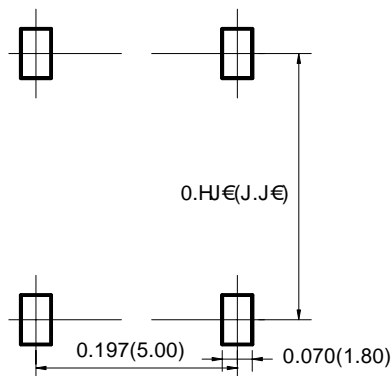


## JBSL Package Outline Dimensions



Dimensions in inches and (millimeters)

## JBSL Suggested Pad Layout



### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.

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