

### JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

# JBSL Plastic-Encapsulate Bridge Rectifier

# JBSL410 Fast Recovery Bridge Rectifier

#### **Features**

• I<sub>F(AV)</sub> 4A

●VRRM 1000V

High surge current capability

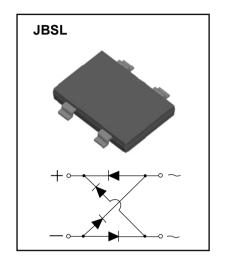
Glass passivated chip

#### **Applications**

 General purpose 1 phase Bridge rectifier applications

#### Marking

• JBSL410



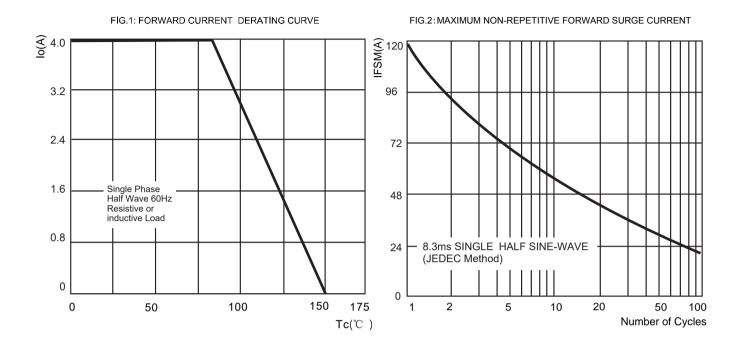
### **Limiting Values (Absolute Maximum Rating)**

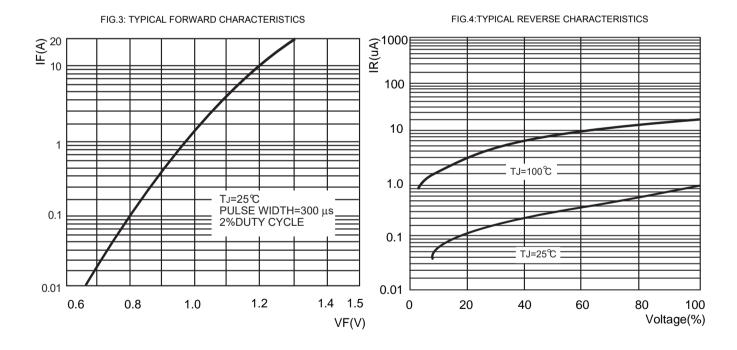
Item	Symbol	Unit	Con	ditions	JBSL410
Repetitive Peak Reverse Voltage	$V_{RRM}$	V			1000
Maximum RMS Voltage	V <sub>RMS</sub>	V			700
Maximum DC Blocking Voltage	$V_{RRM}$	V			1000
Average Rectified Output Current	lo	А	60Hz sine wave, R-load,Tc=80℃	On alumina substrate	4.0
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	А	8.3ms sine wave, 1 cycle, T <sub>j</sub> =25°C		120
Current Squared Time	l <sup>2</sup> t	A <sup>2</sup> S	1ms≤t<8.3ms Tj=25°C,Rating of per diode		60
Operation Junction and Storage Temperature Range	$T_J$ , $T_{stg}$	$^{\circ}\!\mathbb{C}$			-55 ~+150

## Electrical Characteristics (T=25°C Unless otherwise specified)

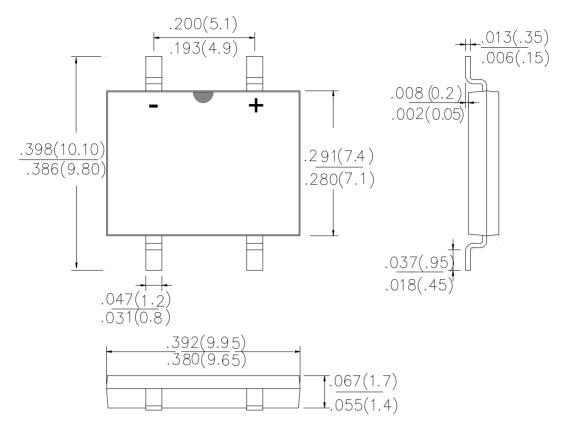
Item	Symbol	Unit	Test Condition		JBSL410
Maximum Peak Forward Voltage	V <sub>FM</sub>	٧	I <sub>FM</sub> =4.0A, Pulse measurement, Rating of per diode		1.1
Maximum Peak Reverse Current	I <sub>RRM1</sub>	μА	$V_{RM}$ = $V_{RRM}$ , Pulse measurement,	Ta=25°C	5
	I <sub>RRM2</sub>	μА	Rating of per diode	Ta=100 ℃	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C		50
Thermal Resistance	$R_{\theta J\text{-}A}$	°C/W	Between junction and ambient, On alumina substrate		60
	$R_{\theta J\text{-}L}$		Between junction and lead		10
	$R_{\theta J-C}$		Between junction and	15	

### **Typical Characteristics**



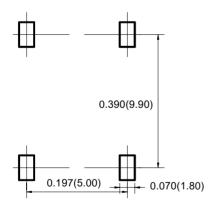


## **JBSL** Package Outline Dimensions



Dimensions in inches and (millimeters)

#### **JBSL Suggested Pad Layout**



#### Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

#### **NOTICE**

JSCJ reserves the right to make modifications,enhancements,improvements,corrections or other changes without further notice to any product herein. JSCJ does not assume any liability arising out of the application or use of any product described herein.

# Reel Taping Specifications For Surface Mount Devices-JBSL

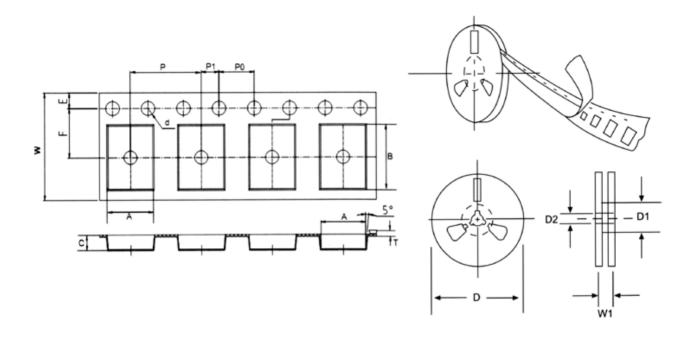


FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	ABS mm(inch)
Carrier width	А	5.40+0.1(0.213+0.004)
Carrier length	В	6.90+0.05(0.272+0.002)
Carrier depth	С	2.10+0.1(0.083+0.004)
Sprocket hole	d	1.55±0.05 (0.061±0.002)
Reel outside diameter	D	279±2.0 (11±0.079)
Reel inner diameter	D1	75 ±1.0 ( 2.95 ±0.039)
Feed hole diameter	D2	13+0.5(0.512+0.020)
Strocket hole position	E	1.75+0.1(0.069+0.004)
Punch hole position	F	5.5+0.05(0.217+0.002)
Punch hole pitch	Р	8.0+0.1(0.315+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)
Totall tape thickness	Т	0.10-0.70(0.004-0.028)
Tape width	W	12.0+0.3/-0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)

NOTE:Devices are packde in accordance with EIA standard RS-481-A and specification given above.