



**JBSL Plastic-Encapsulate Bridge Rectifier**

**JBSL410 Fast Recovery Bridge Rectifier**

**Features**

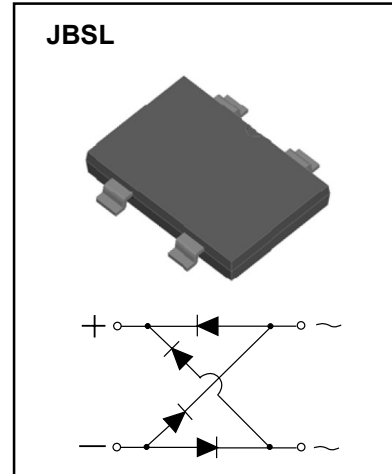
- $I_{F(AV)}$  4A
- $V_{RRM}$  1000V
- High surge current capability
- Glass passivated chip

**Applications**

- General purpose 1 phase Bridge rectifier applications

**Marking**

- JBSL410



**Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions		JBSL410
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, $T_c=80^{\circ}C$	On alumina substrate	4.0
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	8.3ms sine wave, 1 cycle, $T_j=25^{\circ}C$		120
Current Squared Time	$I^2t$	A <sup>2</sup> S	$1ms \leq t < 8.3ms$ $T_j=25^{\circ}C$ , Rating of per diode		60
Operation Junction and Storage Temperature Range	$T_j, T_{stg}$	$^{\circ}C$			-55 ~+150

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

Item	Symbol	Unit	Test Condition		JBSL410
Maximum Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=4.0A$ , Pulse measurement, Rating of per diode		1.1
Maximum Peak Reverse Current	$I_{RRM1}$	$\mu A$	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	$T_A=25^{\circ}C$	5
	$I_{RRM2}$	$\mu A$		$T_A=100^{\circ}C$	100
Typical junction capacitance	$C_j$	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C		50
Thermal Resistance	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient, On alumina substrate		60
	$R_{\theta J-L}$		Between junction and lead		10
	$R_{\theta J-C}$		Between junction and case		15

# Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

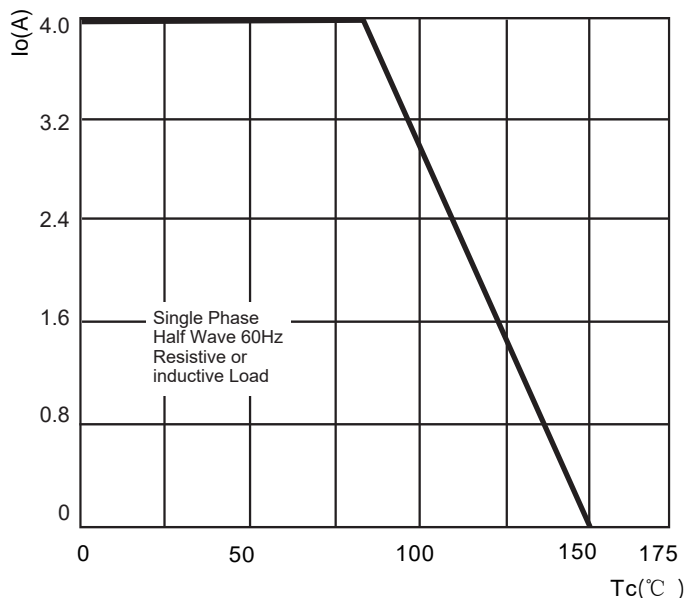


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

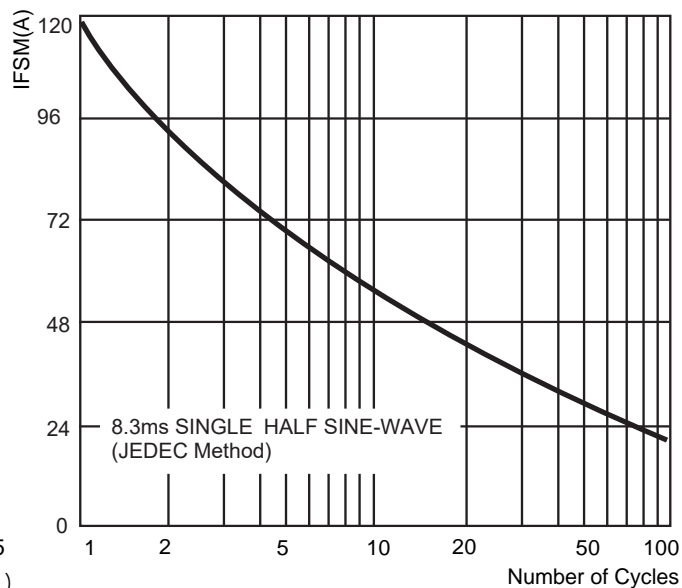


FIG.3: TYPICAL FORWARD CHARACTERISTICS

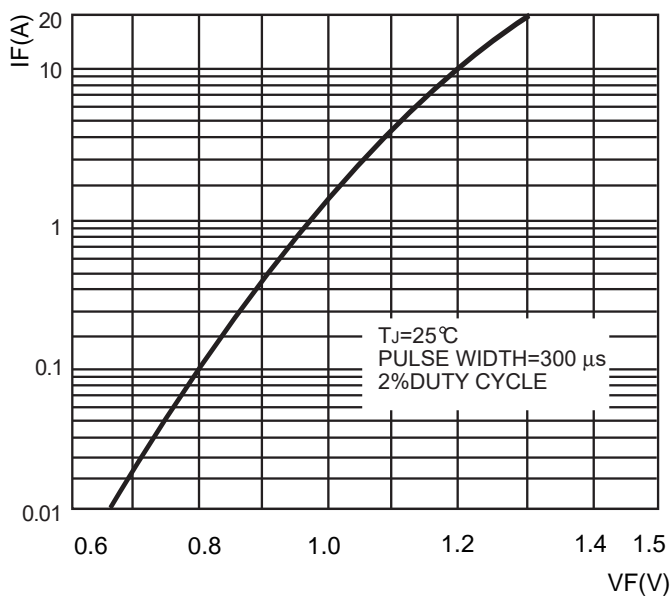
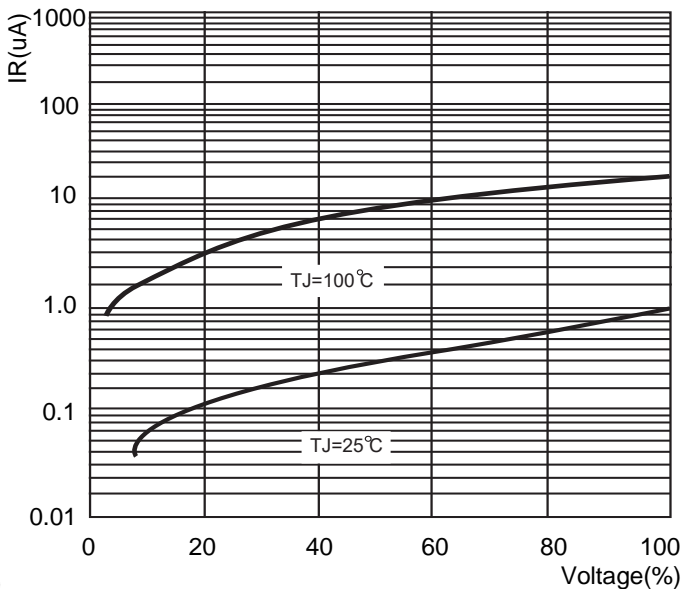
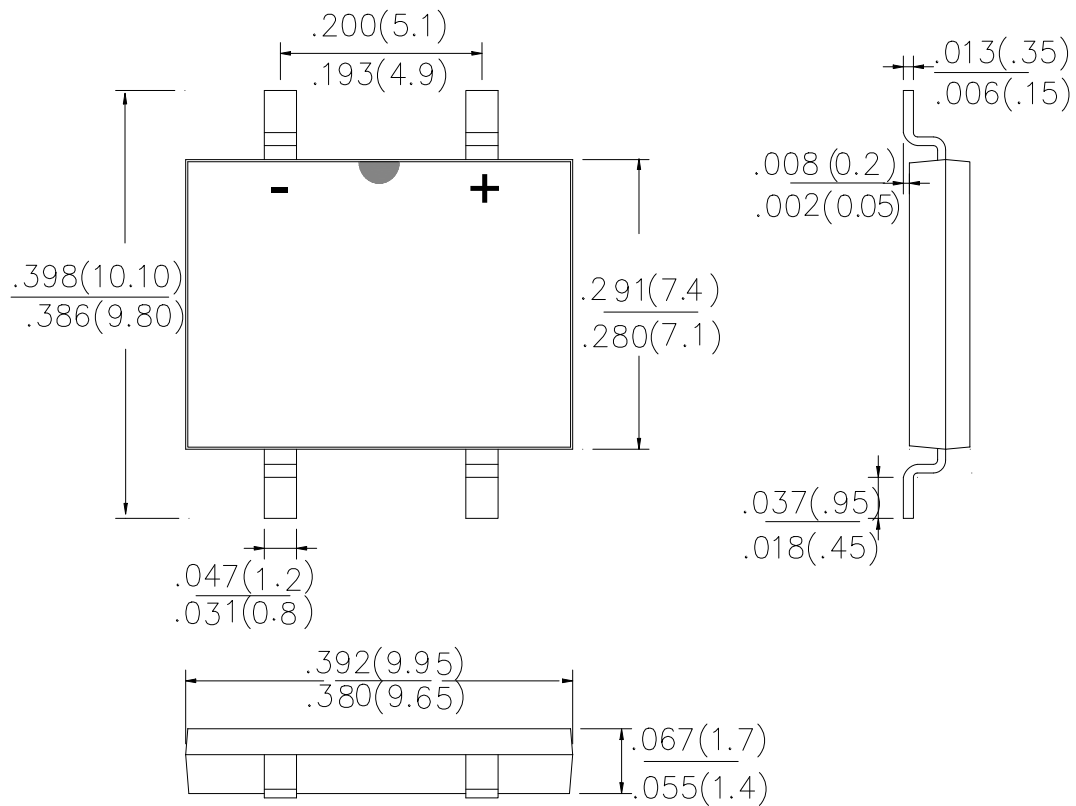


FIG.4: TYPICAL REVERSE CHARACTERISTICS

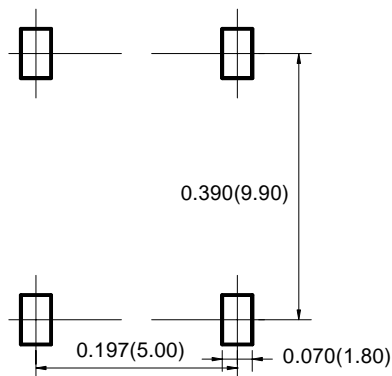


## JBSL Package Outline Dimensions



Dimensions in inches and (millimeters)

## JBSL Suggested Pad Layout



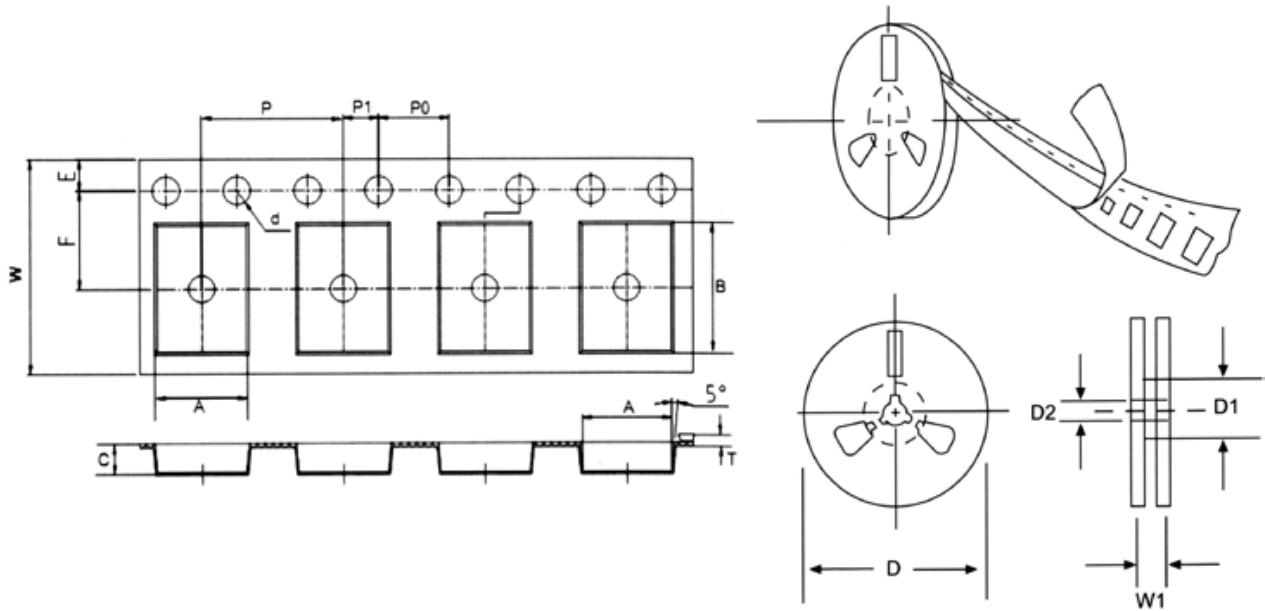
**Note:**

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

**NOTICE**

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# Reel Taping Specifications For Surface Mount Devices–JBSL



**FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING**

ITEM	SYMBOL	ABS mm(inch)
Carrier width	A	5.40+0.1(0.213+0.004)
Carrier length	B	6.90+0.05(0.272+0.002)
Carrier depth	C	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)
Sprocket 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	P	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)
Total tape thickness	T	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 packed in accordance with EIA standard RS-481-A and specification given above.

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