



JBSL Plastic-Encapsulate Bridge Rectifier

RJBSL410 Fast Recovery Bridge Rectifier

Features

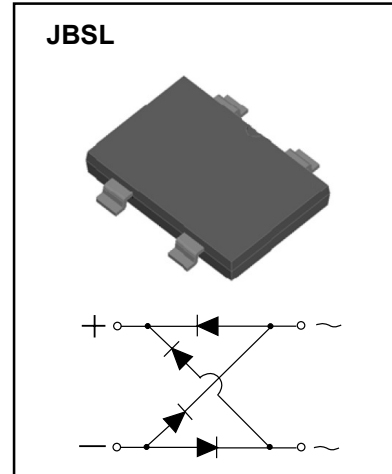
- $I_{F(AV)}$ 4A
- V_{RRM} 1000V
- High surge current capability
- Glass passivated chip

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- RJBSL410



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	RJBSL410
Repetitive Peak Reverse Voltage	V_{RRM}	V		1000
Maximum RMS Voltage	V_{RMS}	V		700
Maximum DC Blocking Voltage	V_{DC}	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 ² 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	RJBSL410
Maximum Peak Forward Voltage	V_{FM}	V	$I_{FM}=4.0A$, Pulse measurement, Rating of per diode	1.3
Maximum Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, $T_a=25^\circ C$	5
			$V_{RM}=V_{RRM}$, $T_a=100^\circ C$	100
Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	500
Typical junction capacitance	C_J	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C.	50
Typical thermal resistance	$R_{\theta J-A}$	$^\circ C/W$	Between junction and ambient, On alumina substrate	60
	$R_{\theta J-C}$		Between junction and case	15
	$R_{\theta J-L}$		Between junction and lead	10

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

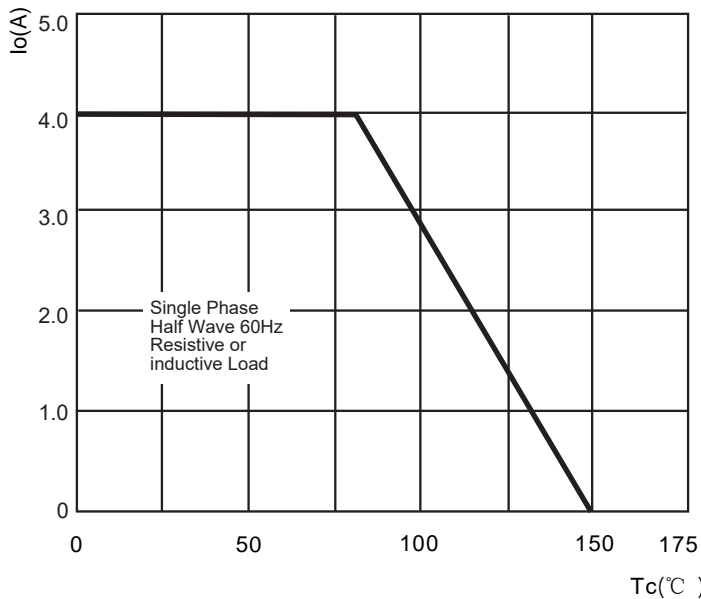


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

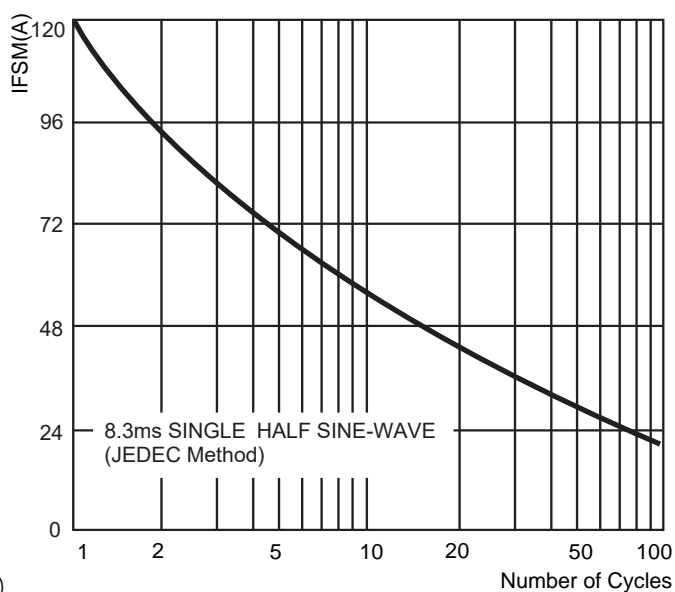


FIG.3: TYPICAL FORWARD CHARACTERISTICS

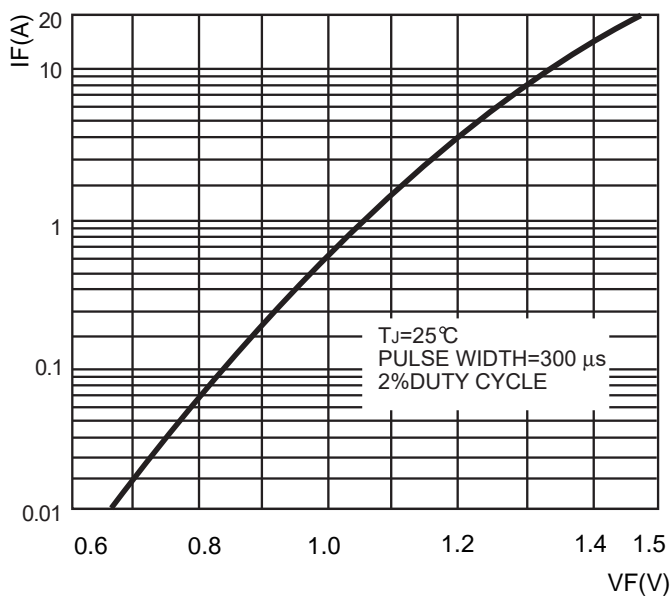
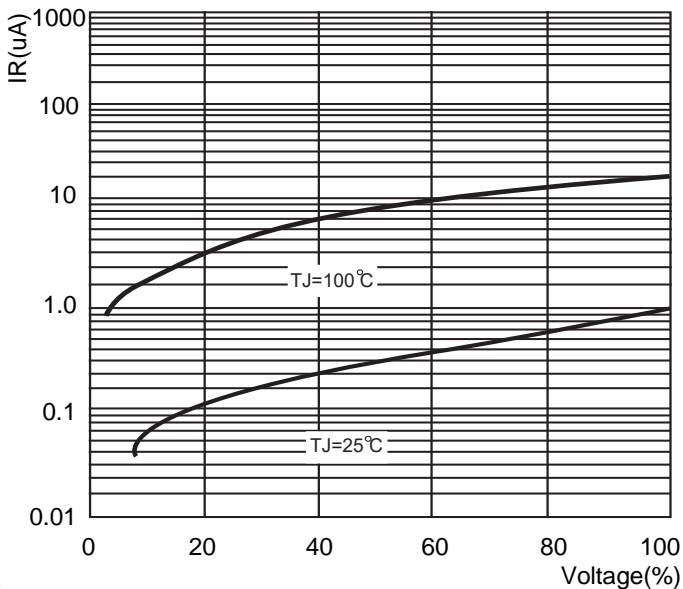
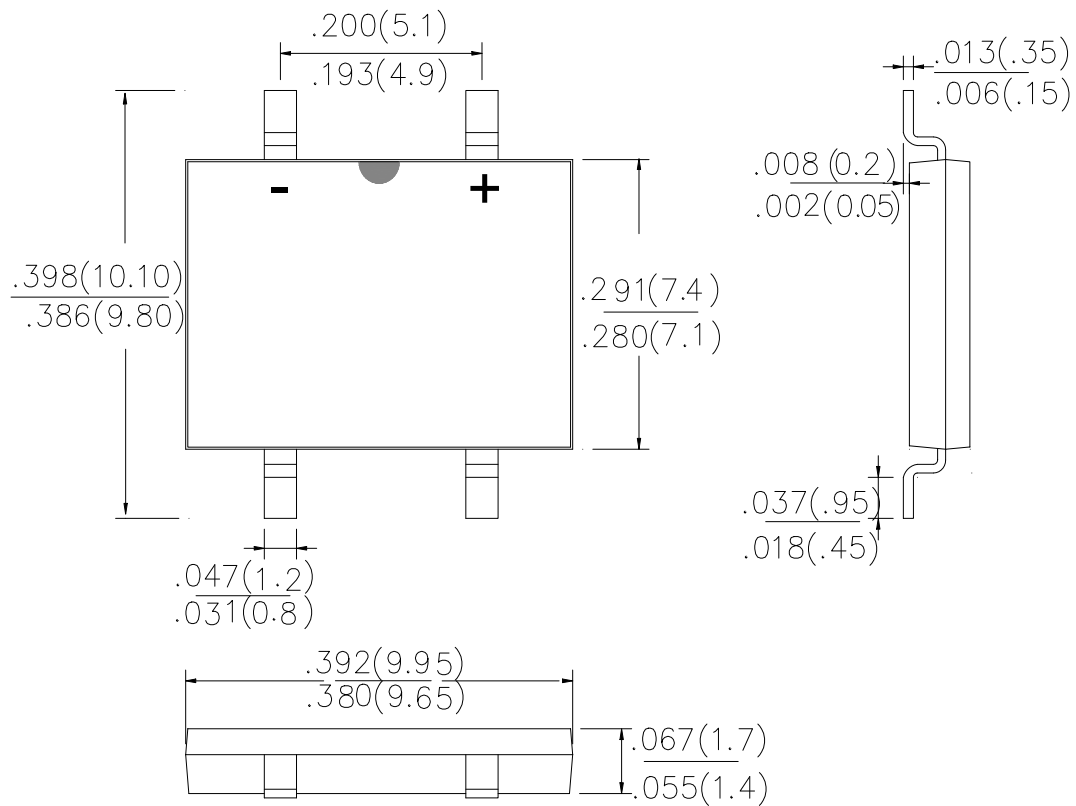


FIG.4: TYPICAL REVERSE CHARACTERISTICS

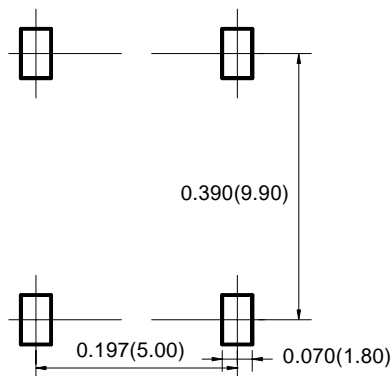


JBSL Package Outline Dimensions



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

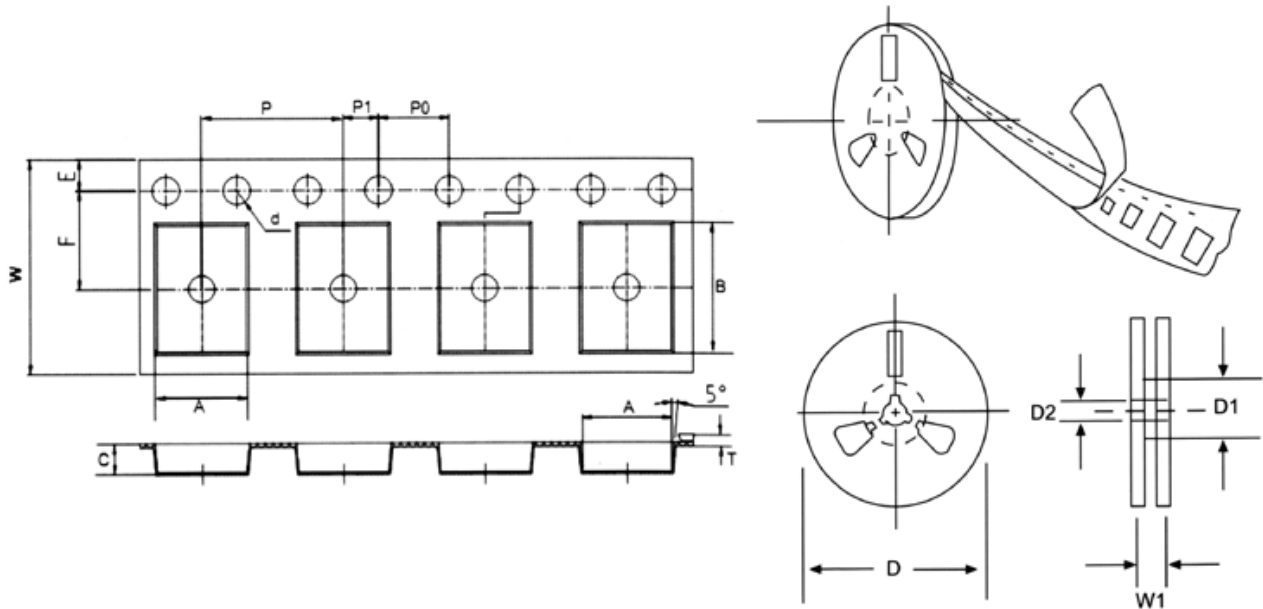


FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	ABS mm(inch)
Carrier width	A	10.10±0.1(0.398±0.004)
Carrier length	B	10.4±0.2(0.409±0.008)
Carrier depth	C	2.00±0.1(0.079±0.004)
Sprocket hole	d	1.50+0.1/-0(0.059+0.004/-0)
Reel outside diameter	D	330±2.0(13.0±0.079)
Reel inner diameter	D1	75±1.0(2.95±0.039)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Stroket hole position	E	1.75±0.1(0.069±0.004)
Punch hole position	F	11.5±0.15(0.453±0.006)
Punch hole pitch	P	12.0±0.05(0.472±0.002)
Sprocket hole pitch	P0	4.0±0.05(0.157±0.002)
Embossment center	P1	2.00±0.05(0.079±0.002)
Totall tape thickness	T	0.35±0.05(0.014±0.002)
Tape width	W	24.0±0.15(0.945±0.006)
Reel width	W1	24.4±0.2(0.961±0.008)

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

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