

2.0A Single-Phase GLass Passivated Bridge Rectifiers

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 60 amperes peak
- Ideal for printed circuit board application
- Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical Data

- Case:Molded plastic
- Terminals:Platde leads solderable per MIL-STD-750, Method 2026
- Polarity:Polarity symbols molded or Marked on body
- Mounting Position:Any

Ordering Information

Part Number	Shipping	Reel
LTD201B THRU LTD207B-TR1K5	1500PCS Tape&Reel	13 inches

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz,resistive or inductive load, for capacitive load derate current by 20%.

Characteristics	Symbol	LTD201B	LTD202B	LTD203B	LTD204B	LTD205B	LTD206B	LTD207B	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=40°C	IAV	2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	60							A
Maximum Forward Voltage at 2.0A DC	VF	1.1							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=125°C	IR	10 100							µA
I ² t Rating for Fusing (t<8.3ms)	I ² t	15							A ² s
Typical Junction Capacitance Per Element (Note1)	CJ	25							pF
Typical Thermal Resistance (Note2)	RJA	68							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient mounted on P.C.B. with 0.5*0.5"(13mm*13mm) copper pads.



Characteristics Curves

FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

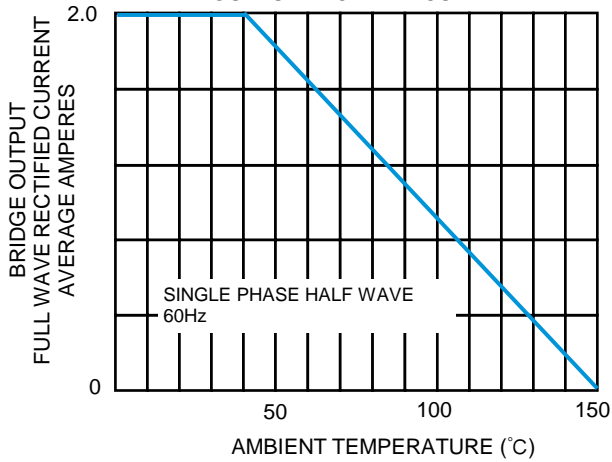


FIG.2 MAXIMUM NON-REPETITIVE SURNGE CURRENT

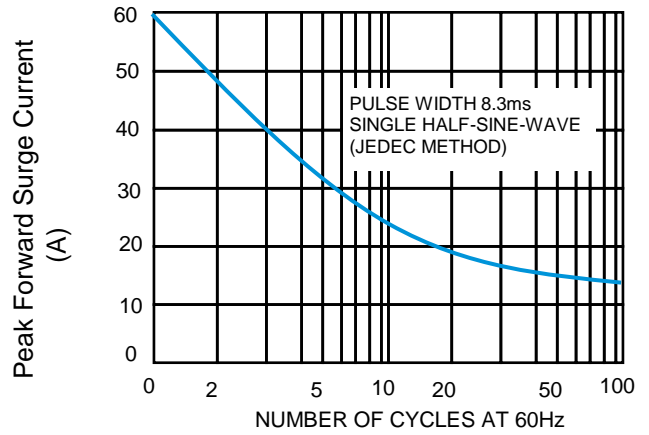


FIG.3 TYPICAL JUNCTION CAPACITANCE

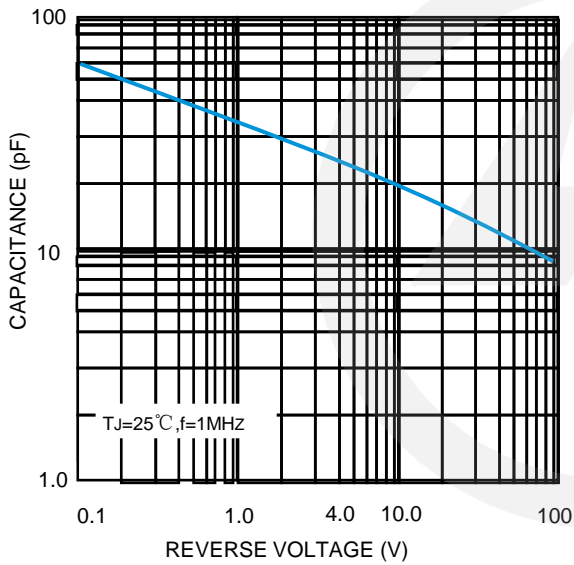


FIG.4 TYPICAL FORWARD CHARACTERISTICS

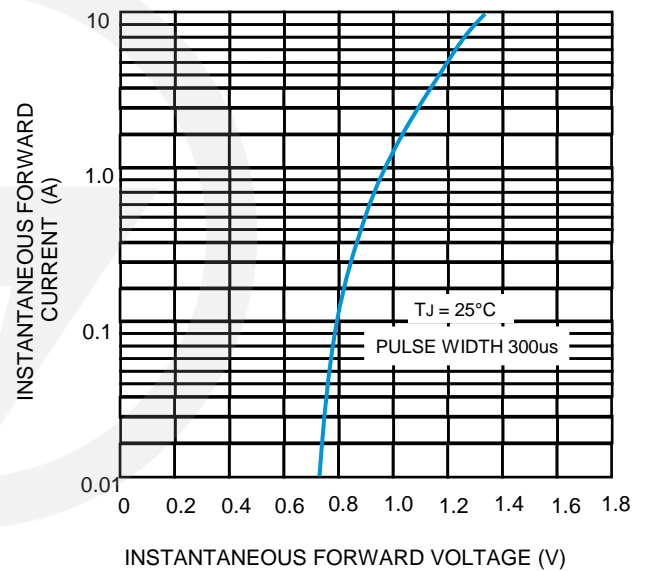
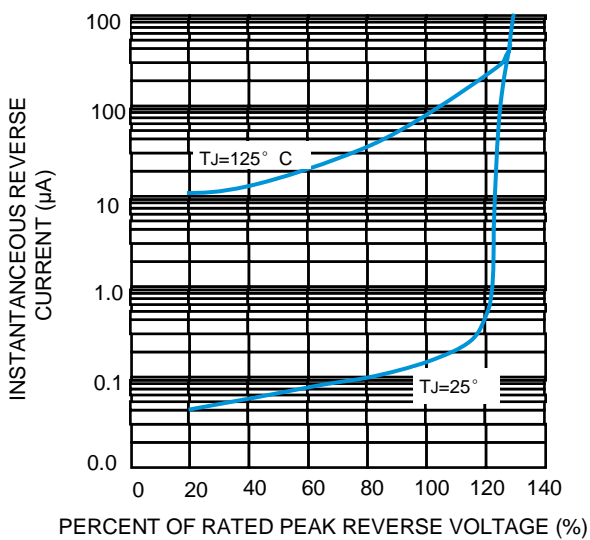
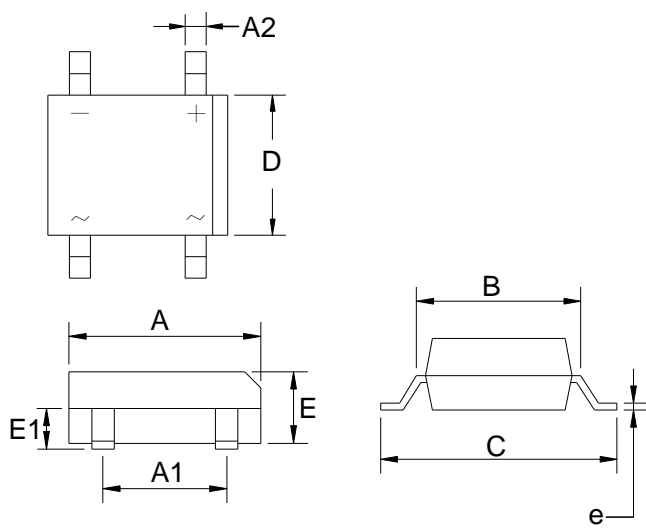


FIG.5 TYPICAL REVERSE CHARACTERISTICS



DBS Package Outline



Unit : mm

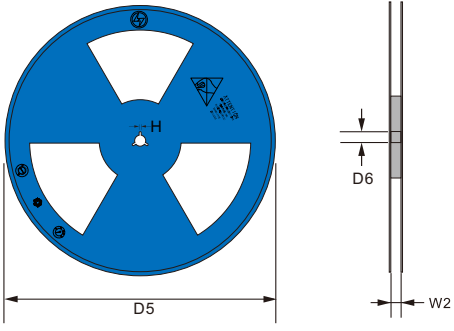
SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	7.800	8.500
A1	5.000	5.200
A2	0.900	1.200
B	7.200	8.000
C	9.700	10.200
D	6.200	6.500
E	2.350	3.000
E1	1.300	1.600
e	0.200	0.350

Marking

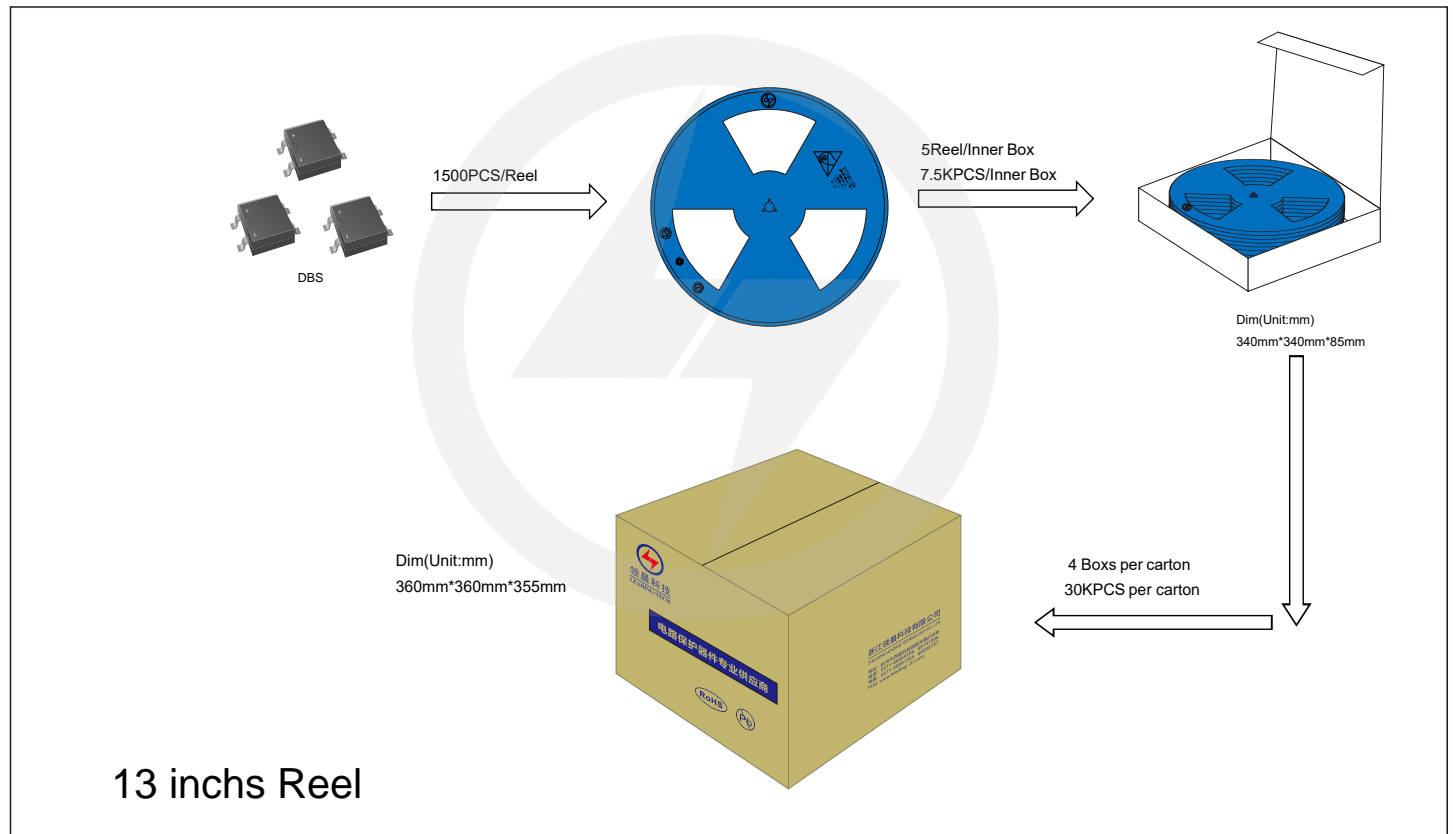
Type number	Marking code
LTD201B	DB201S
LTD202B	DB202S
LTD203B	DB203S
LTD204B	DB204S
LTD205B	DB205S
LTD206B	DB206S
LTD207B	DB207S

Reel Dimensions

Unit : mm

<p>13" Reel</p> 	D5	$\Phi 330.0 \pm 2.0$
	D6	$\Phi 13.5 \pm 0.5$
	H	2.5 ± 1.0
	W2	12 ± 2.0
	Quantity: 1500PCS	

Packaging





Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat	
-Temperature Min ($T_{S\ min}$)	150°C
-Temperature Max ($T_{S\ max}$)	200°C
-Time (min to max) (t_s)	60-180 seconds
$T_{S\ max}$ to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T_L)	217°C
-Time (t_L)	60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision content	Revision Reason	Revision Person	Note
01	2024.8.24	2024.8.24	3.0	New File	/	Ding	
02	2025.05.29	2025.05.29	3.1	Update packaging information	/	Ding	