

2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER
FEATURES:

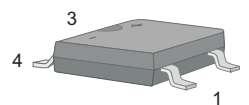
- Glass Passivated Chip Junction
- Reverse Voltage - 2000 V
- Forward Current - 2 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg/0.0031oz

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)



ABS/LBF Package

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	TB22000S	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2000	V
Maximum RMS voltage	V_{RMS}	1400	V
Maximum DC Blocking Voltage	V_{DC}	2000	V
Average Rectified Output Current at $T_L = 88\text{ }^{\circ}\text{C}$	I_O	2.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	40	A
I^2t Rating for Fusing ($T < 8.3\text{ms}$)	I^2t	6.7	A^2S
Forward Voltage per element @ $I_F = 1.0\text{A}$ @ $I_F = 2.0\text{A}$	V_F	1.05 1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25\text{ }^{\circ}\text{C}$ @ $T_A = 125\text{ }^{\circ}\text{C}$	I_R	5.0 100	μA
Typical Junction Capacitance (Note1)	C_j	12	pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JL}$ $R_{\theta JC}$	40 20 10	$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	$^{\circ}\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

 2. Mounted on glass epoxy PC board with $4 \times 1.5'' \times 1.5''$ (3.81 $\times$ 3.81 cm) copper pad.

RATING AND CHARACTERISTICS CURVES (TB22000S)

Fig.1 Average Rectified Output Current Derating Curve

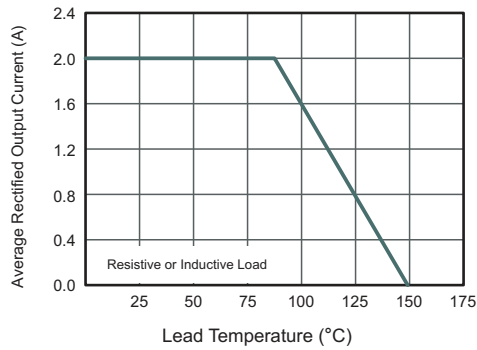


Fig.2 Typical Reverse Characteristics

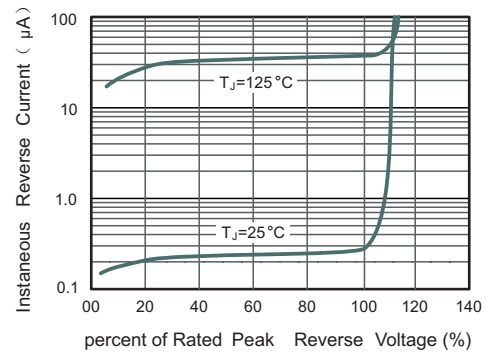


Fig.3 Typical Instantaneous Forward Characteristics

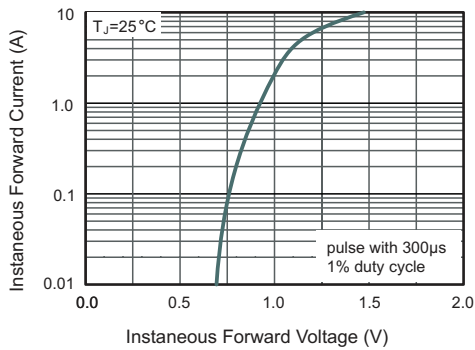


Fig.4 Typical Junction Capacitance

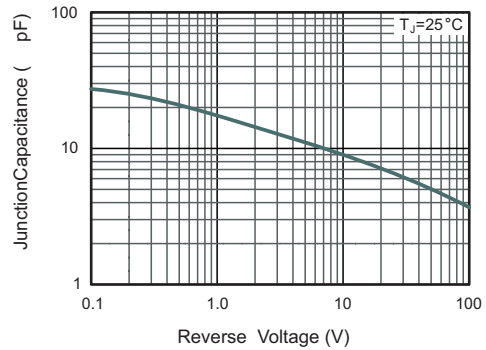
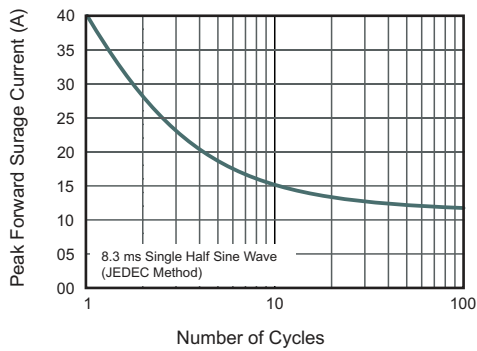


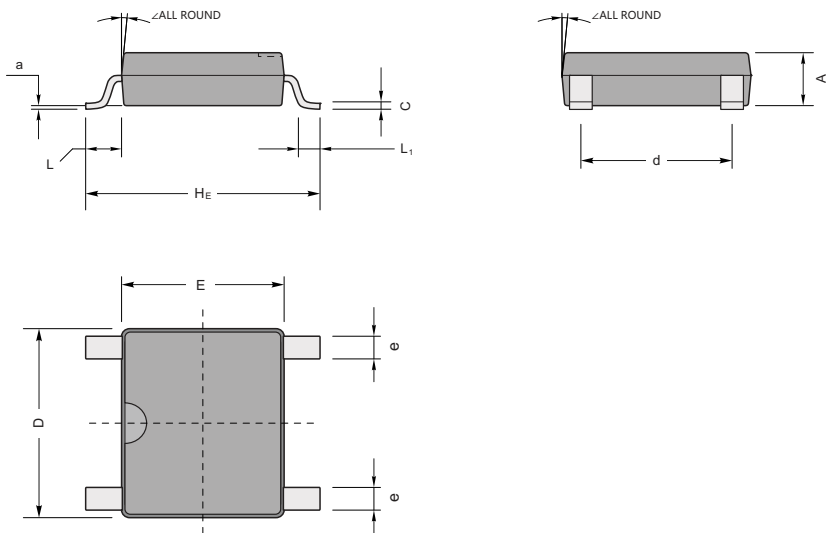
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

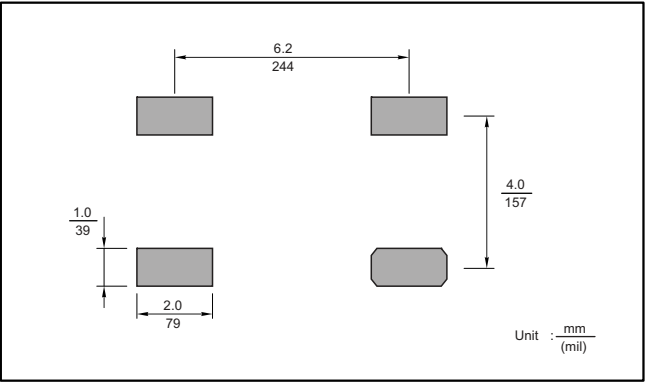
ABS/LBF



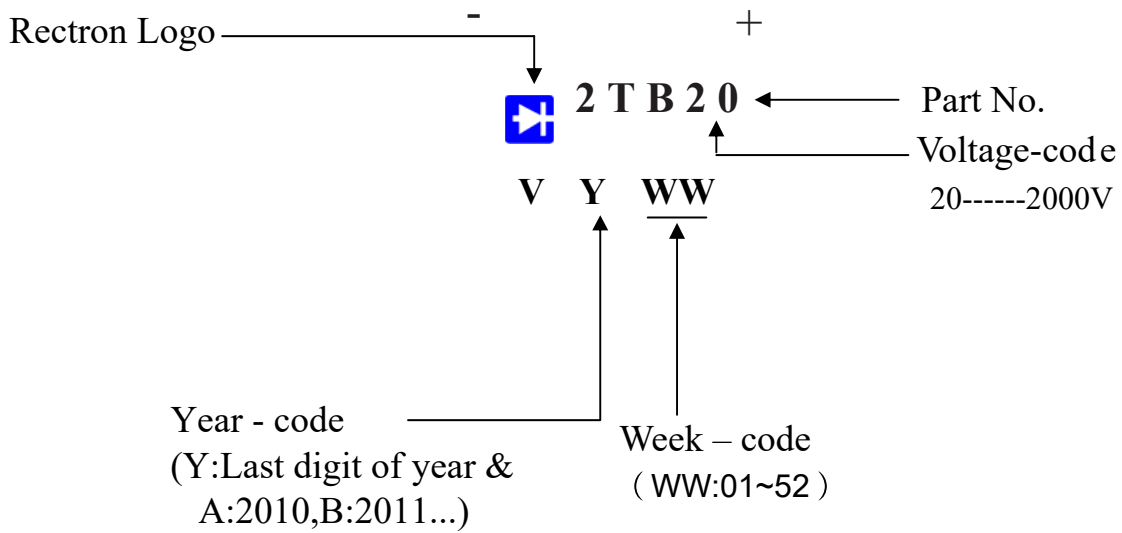
ABS/LBF mechanical data

UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	∠
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	7°
	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5				
mil	max	59	8.7	205	177	252	165	28	37	24	8	
	min	51	5.9	193	166	236	150	20				

The recommended mounting pad size



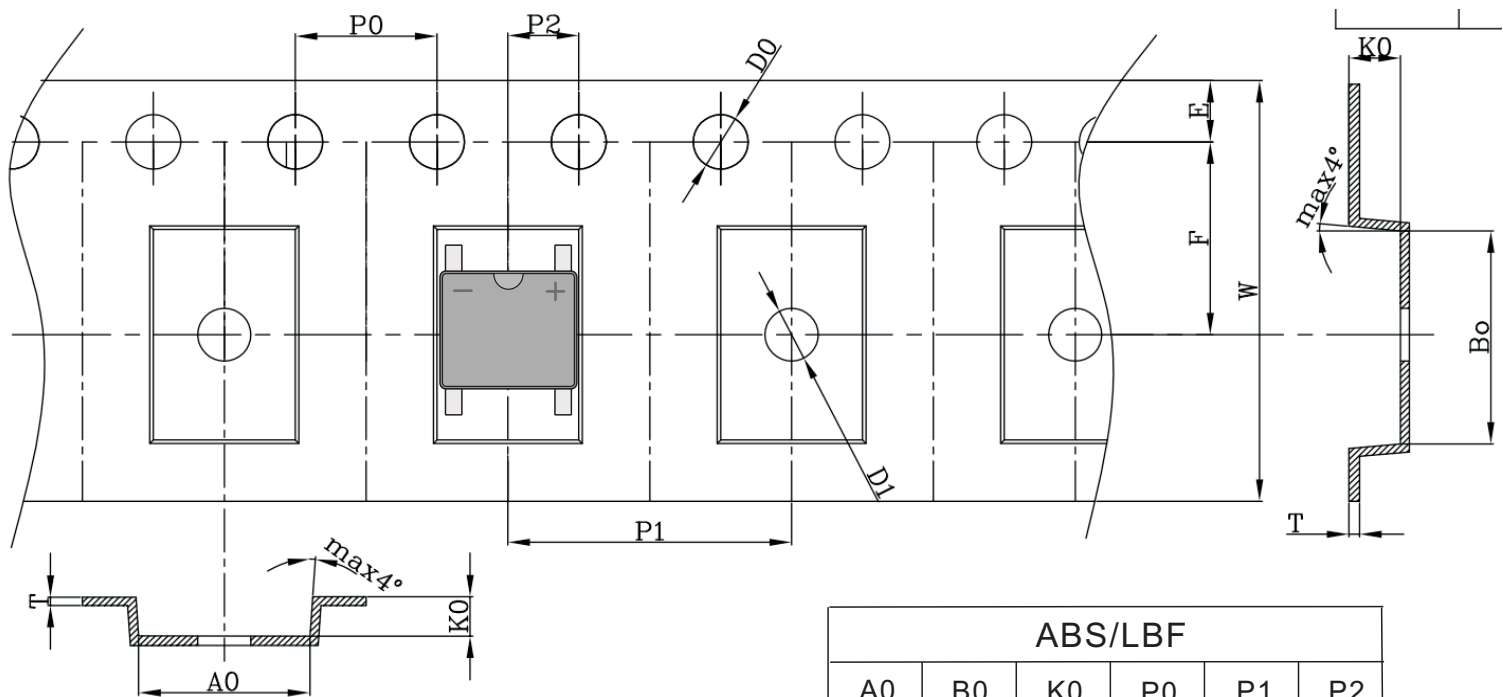
Marking Description



PACKAGE	PACKING CODE	PER REEL (EA)	REEL DIA (mm)	INNER BOX (EA)	BOX SIZE (mm)	CARTON SIZE (mm)	PER CARTON (EA)
ABS/LBF	-T	5,000	330	10,000	336*336*40	345*345*235	50,000

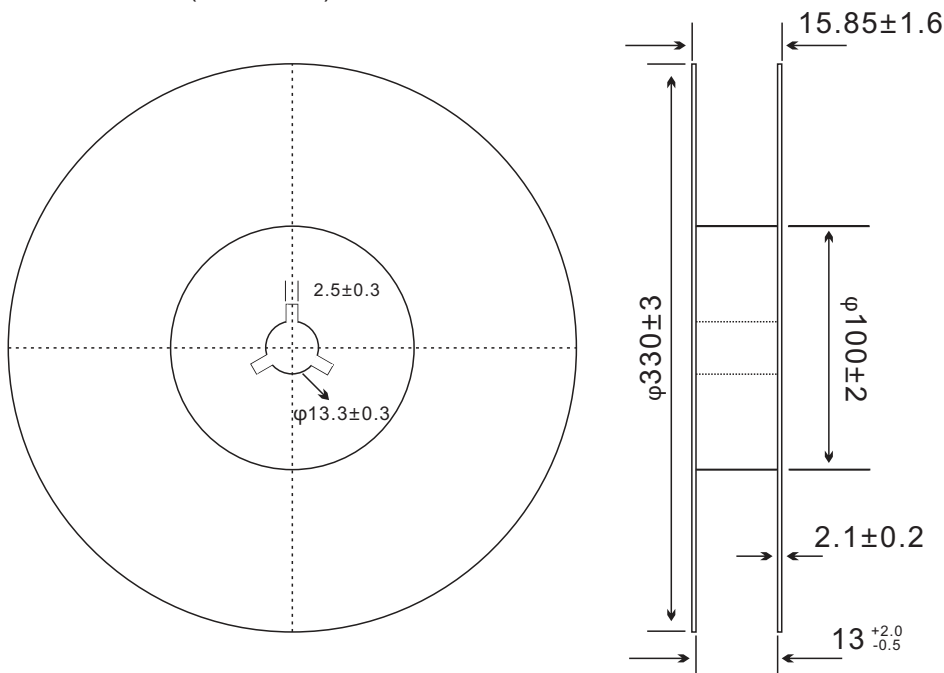
ABS/LBF

Tape data (Units: mm)



ABS/LBF					
A0	B0	K0	P0	P1	P2
5.30±0.1	6.50±0.1	1.70±0.1	4.0±0.1	8.0±0.1	2.0±0.05
T	E	F	D0	D1	W
0.2±0.05	1.75±0.1	5.50±0.05	1.55±0.05	1.55±0.1	12.0 ^{+0.3} _{-0.1}

Reel data(Units:mm)



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