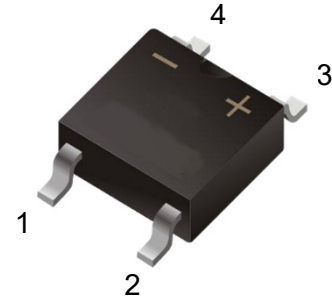


**2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER**
**Feature**

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 2 A
- Fast reverse recovery time
- Designed for Surface Mount Application


**Top View**
**Mechanical Characteristics**

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

**Absolute maximum rating@25°C**

Parameter	Symbol	PFTB 1S-20	PFTB 2S-20	PFTB 4S-20	PFTB 6S-20	PFTB 8S-20	PFTB 10S-20	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c = 115\text{ }^\circ\text{C}$	$I_O$	2.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50						A
Maximum Forward Voltage at 2.0 A	$V_F$	1.3						V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ }^\circ\text{C}$ $T_a = 125\text{ }^\circ\text{C}$	$I_R$	5.0 200						$\mu\text{A}$
Typical Junction Capacitance <sup>1)</sup>	$C_J$	30						pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	50						$^\circ\text{C/W}$
Maximum Reverse Recovery Time <sup>3)</sup>	$t_{rr}$	350						ns
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55~+150						$^\circ\text{C}$

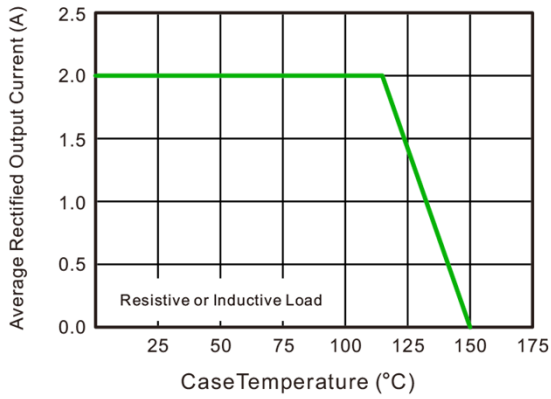
Notes:

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

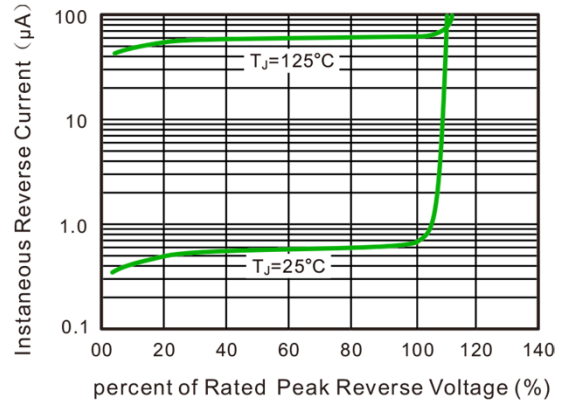
2) Mounted on glass epoxy PC board with  $4 \times 1.5'' \times 1.5''$  (3.81 × 3.81 cm) copper pad.

3) Measured with  $I_F = 0.5\text{ A}$ ,  $I_R = 1\text{ A}$ ,  $I_{rr} = 0.25\text{ A}$ .

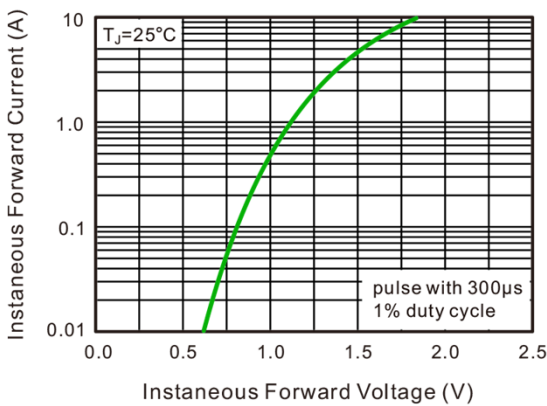
## Typical Characteristics



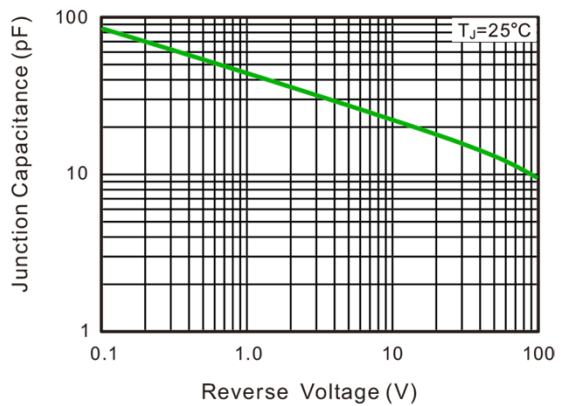
**Fig.1 Average Rectified Output Current Derating Curve**



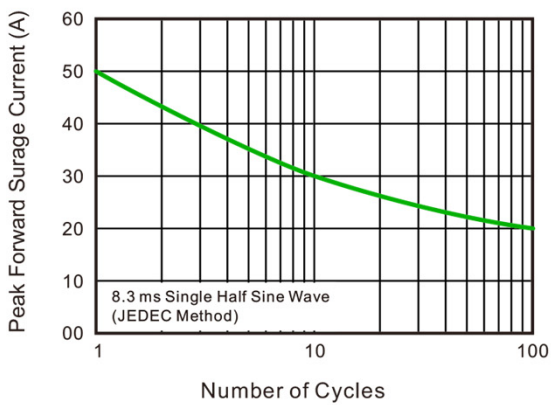
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**

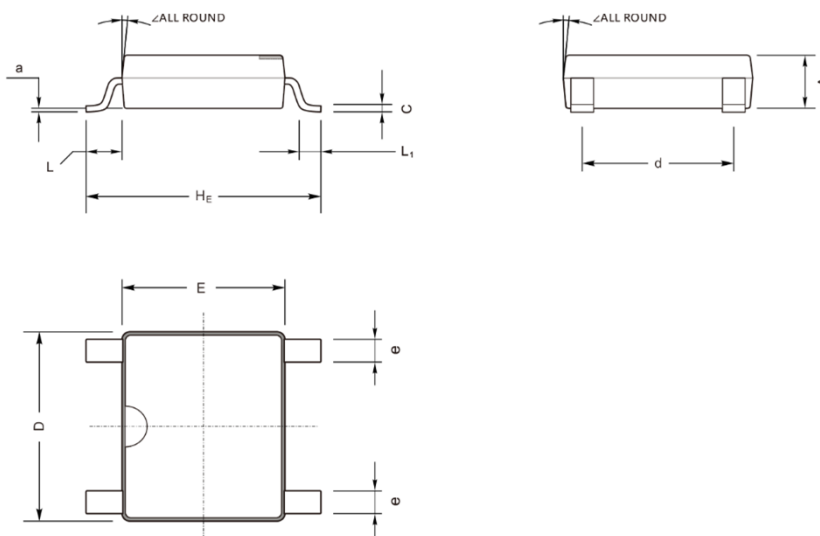


**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

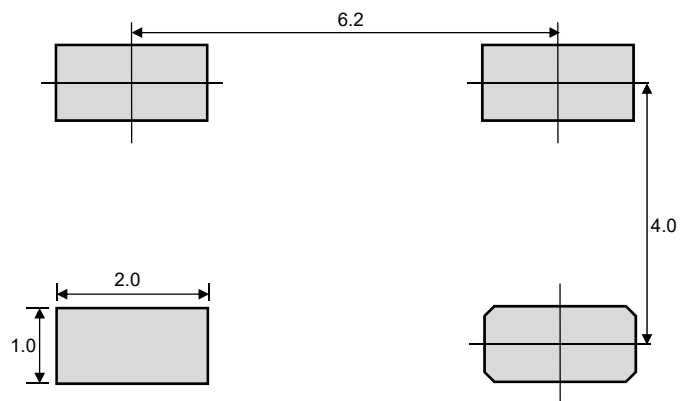
# BRIDGE RECTIFIER

# PFTB1S-20 THRU PFTB10S-20

## Product dimension (ABS/LBF)




Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	1.30	1.50	0.051	0.059
C	0.15	0.22	0.006	0.009
D	4.90	5.20	0.193	0.205
E	4.20	4.50	0.165	0.177
$H_E$	6.00	6.40	0.236	0.252
d	3.80	4.20	0.150	0.165
e	0.50	0.70	0.020	0.028
L	0.95		0.037	
$L_1$	0.60		0.024	
a	0.20		0.008	
$\angle$	7°		7°	



Suggested PCB Layout

Unit:mm


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