

# TD21F THRU TD210F

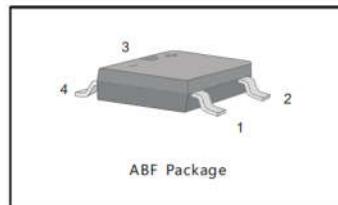
**Surface Mount Glass passivated Bridge Rectifier**  
**Reverse Voltage - 100 to 1000 V**  
**Forward Current - 2 A**

## Features

- Glass Passivated Chip Junction
- High Surge Current Capability
- Designed for Surface Mount Application

## PINNING

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



## Mechanical Data

- Package: ABF
- Terminals: Solderable per MIL-STD-750, Method 2026

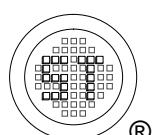
## Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	TD21F	TD22F	TD24F	TD26F	TD28F	TD210F	Units
Marking		TD21F	TD22F	TD24F	TD26F	TD28F	TD210F	-
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Average Forward Current T <sub>L</sub> = 100°C	I <sub>F(AV)</sub>			2				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>			60				A
I <sup>2</sup> t Rating for fusing(t = 8.3 mS)	I <sup>2</sup> t			14.9				A <sup>2</sup> S
Maximum Instantaneous Forward Voltage at 2 A	V <sub>F</sub>			1.1				V
Maximum DC Reverse Current at T <sub>a</sub> = 25 °C Rated DC Blocking Voltage T <sub>a</sub> = 125 °C	I <sub>R</sub>			5	100			μA
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>			30				pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub> R <sub>θJL</sub>			65	16			°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>			- 55 to + 150				°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C.

<sup>2)</sup> Mounted on glass epoxy PC board with 4 X (5 X 5 mm<sup>2</sup>) copper pad.



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Fig.1 Average Rectified Output Current Derating Curve

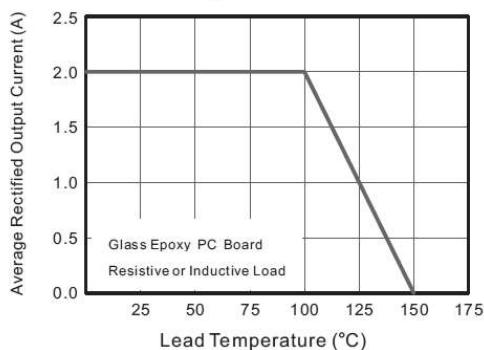


Fig.2 Typical Reverse Characteristics

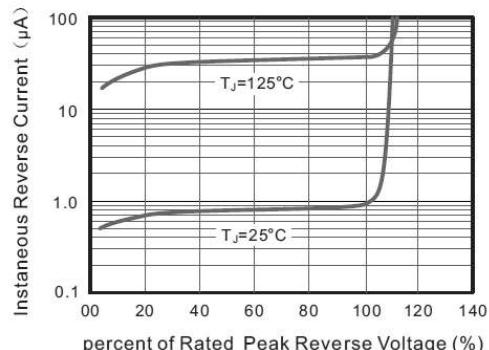


Fig.3 Typical Instantaneous Forward Characteristics

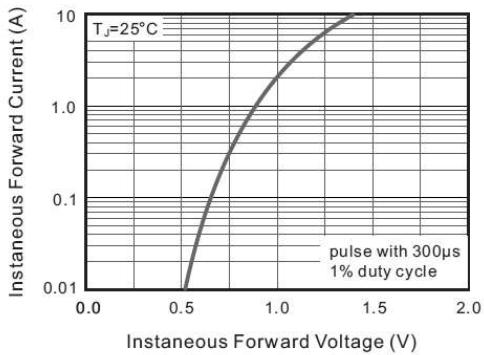
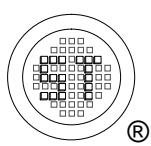
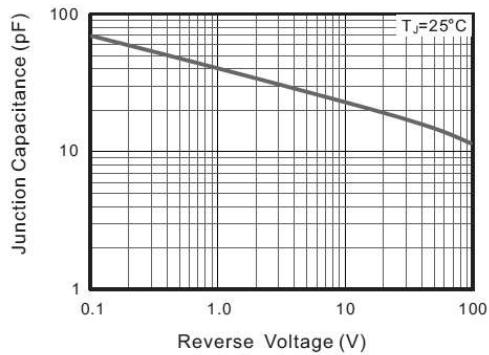


Fig.4 Typical Junction Capacitance

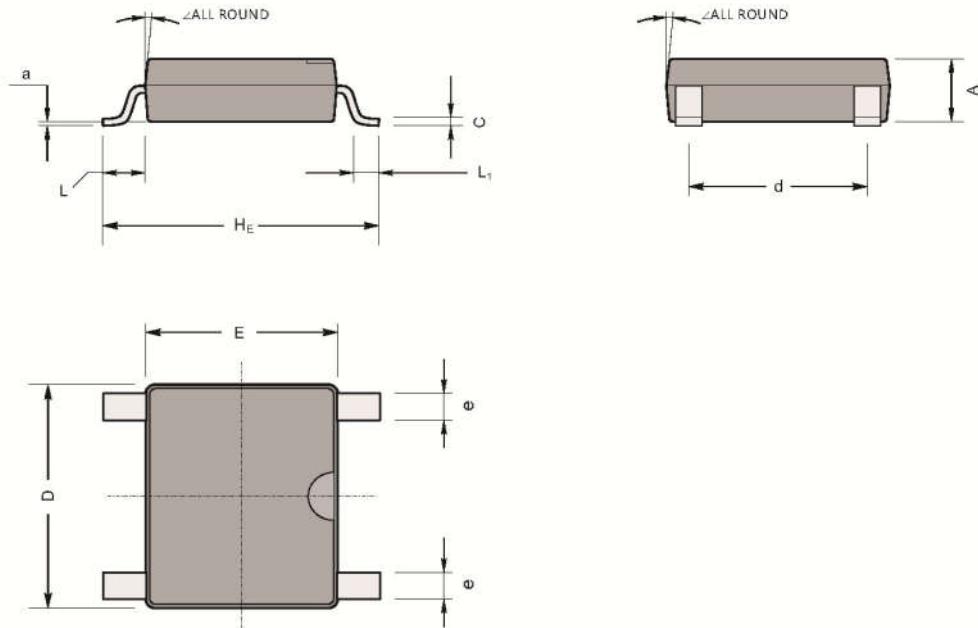


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## PACKAGE OUTLINE

ABF

Plastic surface mounted package; 4 leads



UNIT	A	C	D	E	H <sub>E</sub>	d	e	L	L1	a	θ
mm	1.2	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.1	7°
	1	0.15	4.9	4.2	6	3.6	0.5				

## Recommended Soldering Footprint

