

TD21F THRU TD210F-HAF

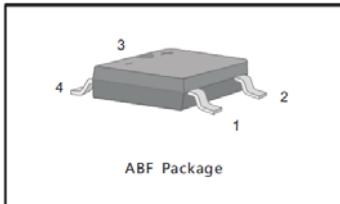
Surface Mount Glass passivated Bridge Rectifier
Reverse Voltage - 100 to 1000 V
Forward Current - 2 A

Features

- Glass Passivated Chip Junction
- High Surge Current Capability
- Designed for Surface Mount Application
- Halogen and Antimony Free(HAF), RoHS compliant

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_{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 Forward Current $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	2						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	60						A
Maximum Instantaneous Forward Voltage at 2 A	V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	I_R	5 100						μA
Typical Junction Capacitance ¹⁾	C_j	30						pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$ $R_{\theta JL}$	65 16						$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150						$^\circ\text{C}$

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

²⁾ Mounted on glass epoxy PC board with 4 X (5 X 5 mm²) copper pad.



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Fig.1 Average Rectified Output Current Derating Curve

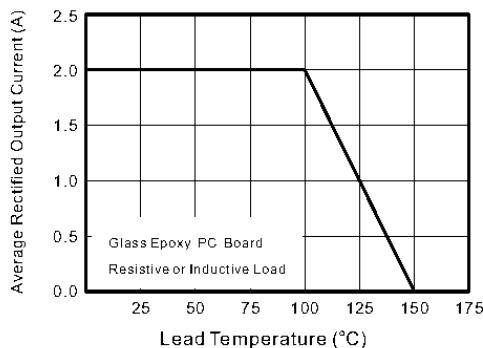


Fig.2 Typical Reverse Characteristics

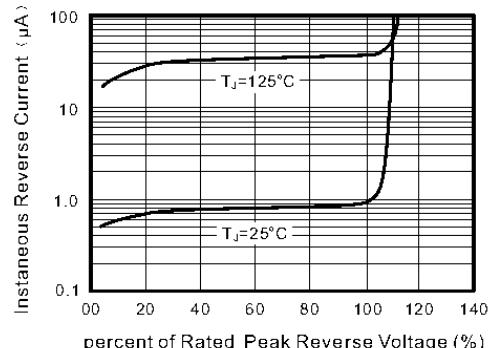


Fig.3 Typical Instantaneous Forward Characteristics

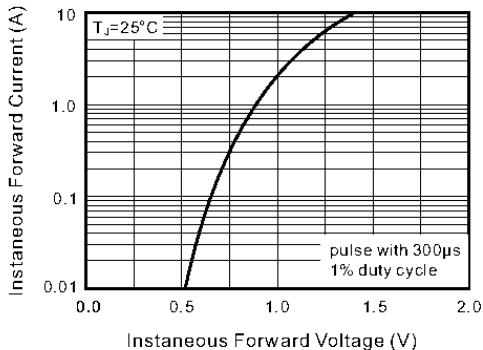
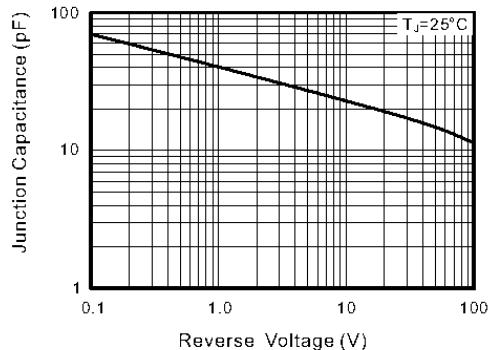


Fig.4 Typical Junction Capacitance



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ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IEC60068-2-27
Certificate No. 121505007 Certificate No. 00114012 Certificate No. 0519150006 Certificate No. ECO-MARK U.02

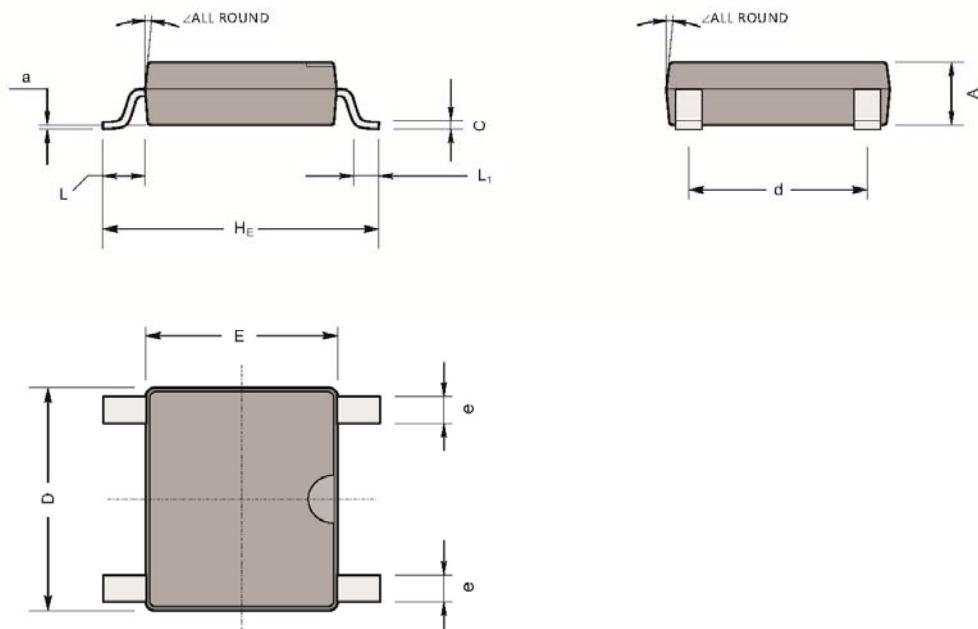
Dated: 24/12/2015 JD Rev: 04

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PACKAGE OUTLINE

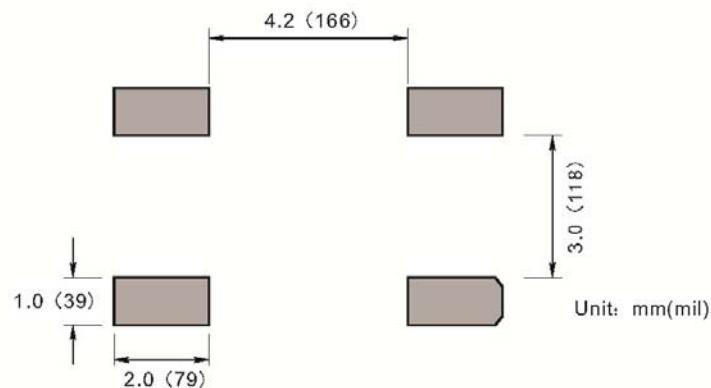
ABF

Plastic surface mounted package; 4 leads



UNIT	A	C	D	E	H _E	d	e	L	L1	a	∠
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



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