TD21M THRU TD210M-HAF

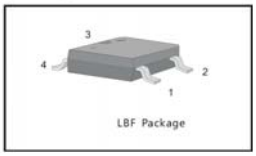
Surface Mount Bridge Rectifier

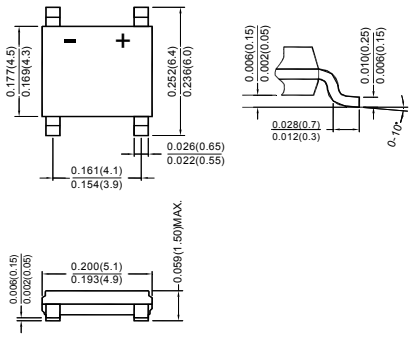
Reverse Voltage - 100 to 1000 V
Forward Current - 2 A

LBF

PINNING

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





Dimensions in inches and (millimeters)

Features

- Designed for Surface Mount Application
- Glass passivated chip
- High Surge Current Capability
- Small size, simple installation
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

- **Package**: LBF
- **Polarity**: Polarity symbol marked on body

Maximum Ratings and Electrical characteristics

Rating at 25℃ ambient temperature unless otherwise specified, single phase, half-wave, 60 Hz, resistive or inductive load, for capacitive load derate current by 20 %.

Parameter	Symbols	TD21M	TD22M	TD24M	TD26M	TD28M	TD210M	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
Maximum Average Forward Current at T_a = 40℃	$I_{F(AV)}$	2						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50						A
Maximum Instantaneous Forward Voltage at Forward Current 2 A	V_F	1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_a = 25℃ T_a = 125℃	I_R	5 500						μA
Typical Junction Capacitance [1]	C_j	25						pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	80						℃/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150						℃

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

[2] Mounted on glass epoxy PC board with 4 x 2.54 mm copper pad.

Fig.1 Average Rectified Output Current Derating Curve

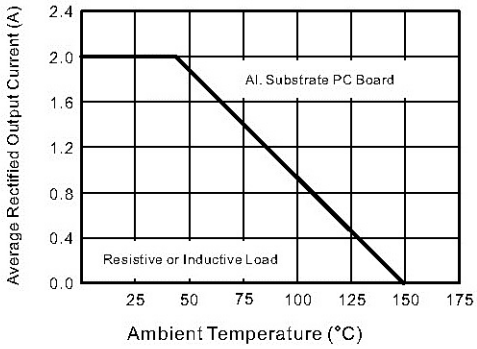


Fig.2 Typical Reverse Characteristics

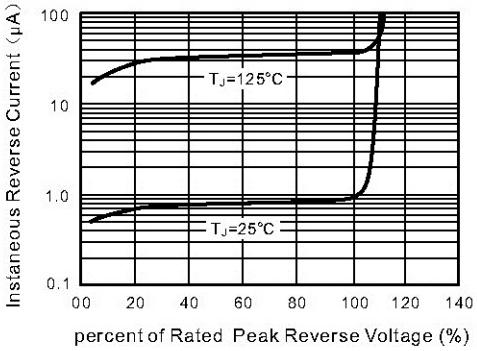


Fig.3 Typical Instaneous Forward Characteristics

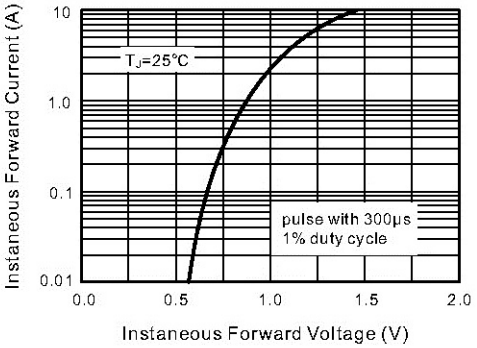


Fig.4 Typical Junction Capacitance

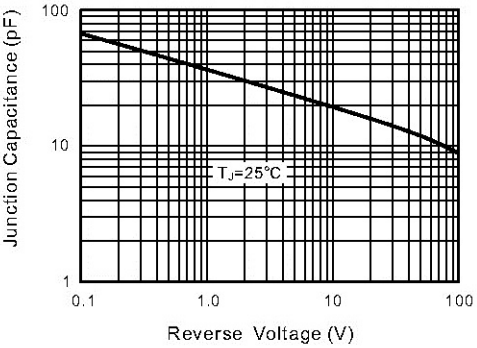


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current