TT4KF THRU TT4MF

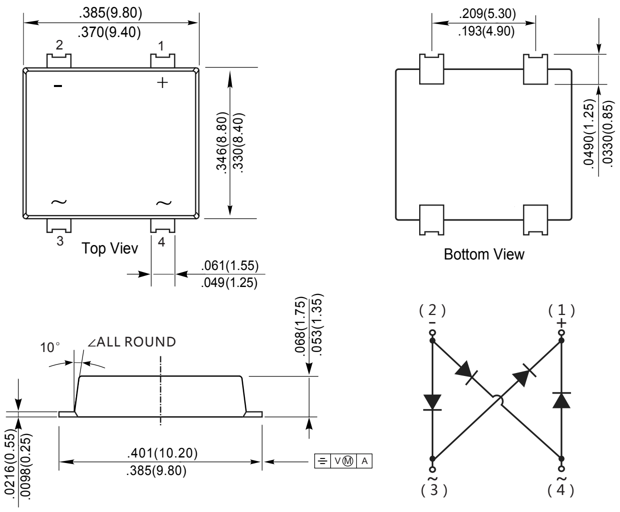
Voltage Range - 800 to 1000 Volts   Current - 4.0 Ampere

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

Features

TTF

- ◆ Glass Passivated Chip Junction
- ◆ Reverse Voltage - 800 to 1000 V
- ◆ Forward Current- 4.0 A
- ◆ High Surge Current Capability
- ◆ Designed for Surface Mount Application



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC TTF molded plastic body
Terminals : Solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body Mounting
Position : Any
Weight : 0.0163 ounce, 0.461 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

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

Parameter	Symbols	TT4KF	TT4MF	Units
Marking Code		MDD TT4KF	MDD TT4MF	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	1000	V
Maximum RMS voltage	V_{RMS}	560	700	V
Maximum DC Blocking Voltage	V_{DC}	800	1000	V
Maximum Average Forward Rectified Current	I_O	4		A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150		A
I^2t Rating for Fusing	I^2t	93		A^2S
Maximum Forward Voltage at 1.0 A	V_F	0.83 typ.		V
Maximum Forward Voltage at 4.0 A	V_F	1.0		V
Maximum DC Reverse Current @T_a=25 °C at Rated DC Blocking Voltage @T_a=125 °C	I_R	5 100		μA
Typical Junction Capacitance (Note1)	C_j	40		pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	60 10 12		°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150		°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. P.C.B. mounted with 4×1.5"×1.5" (3.81×3.81 cm) copper pad areas.

Typical Characterisitics

Fig.1 Average Rectified Output Current Derating Curve

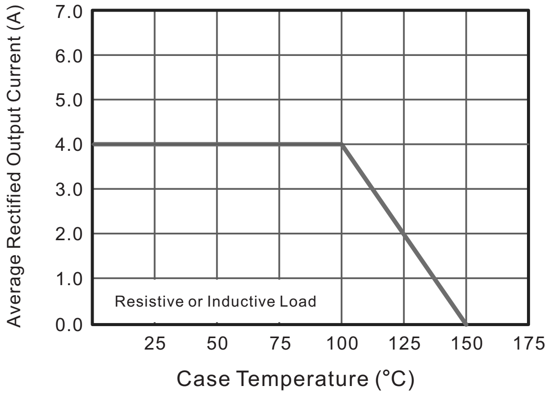


Fig.2 Typical Reverse Characteristics

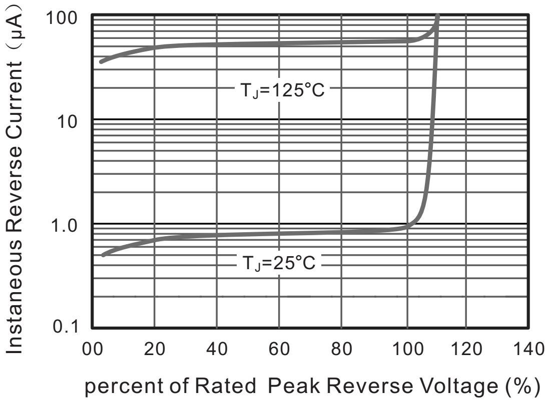


Fig.3 Typical Instaneous Forward Characteristics

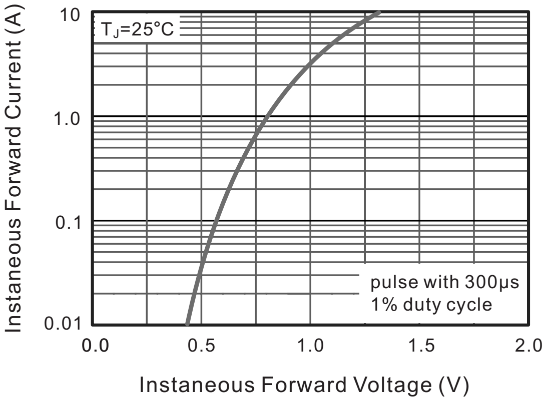


Fig.4 Typical Junction Capacitance

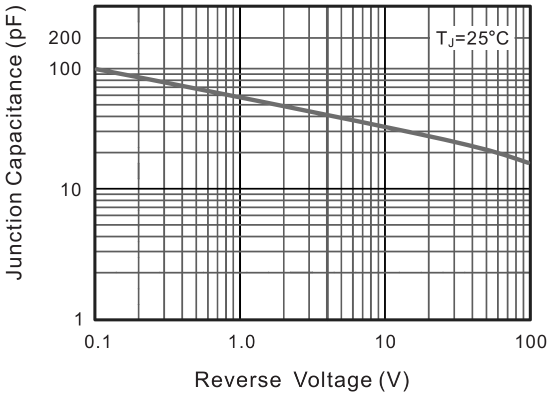


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

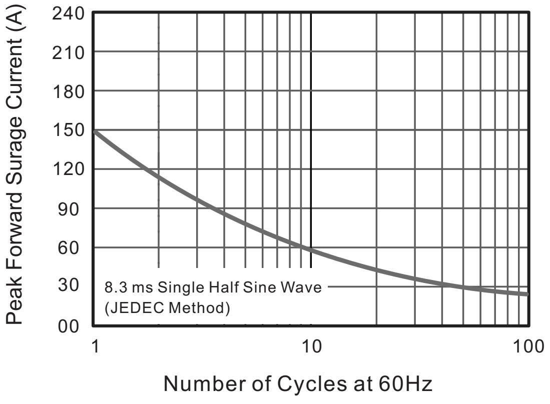
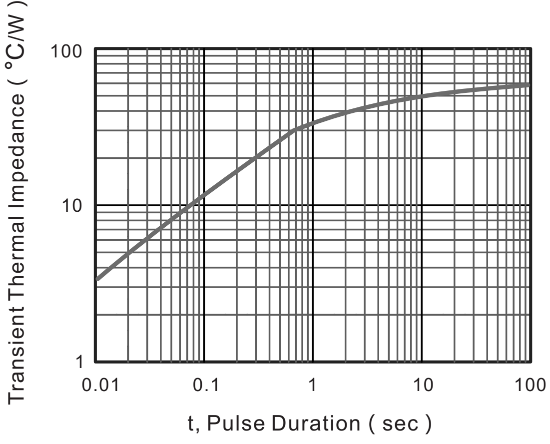
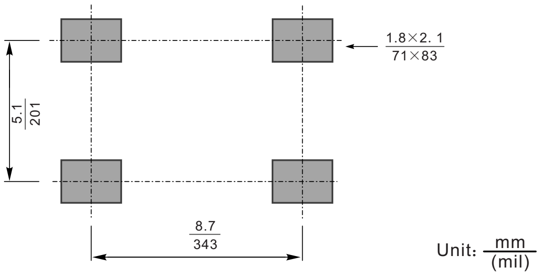


Fig.6- Typical Transient Thermal Impedance



The curve above is for reference only.

Suggested Pad Layout



Note:
1.Controlling dimension:in/millimeters.
2.General tolerance: ±0.05mm.
3.The pad layout is for reference purposes only.

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