

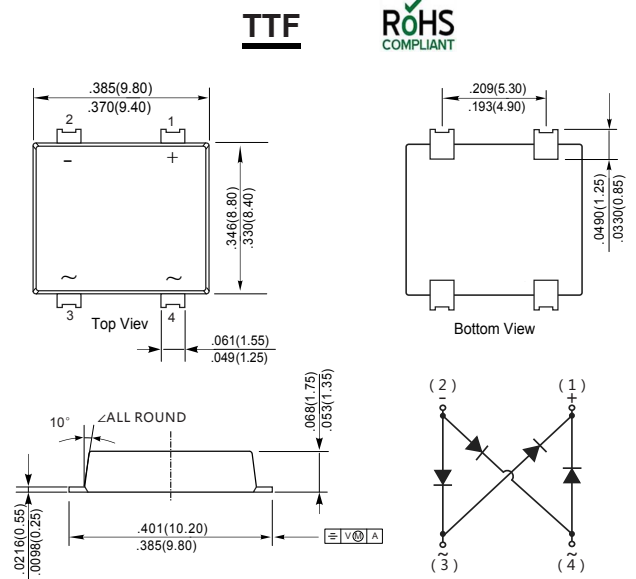
8A SURFACE MOUNT BRIDGE RECTIFIERS

Features

- ◆ Reverse Voltage - 800 to 1000 V
- ◆ Forward Current- 8.0 A
- ◆ High Surge Current Capability
- ◆ Designed for Surface Mount Application

Mechanical Data

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



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	Symbols	MDD TT8KF	MDD TT8MF	Units
Marking Code				
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	8		A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	220		A
Peak Forward Surge Current 1.0ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	350		A
I^2t Rating for Fusing $1ms \leq t < 8.3ms$	I^2t	200		A ² S
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 @ $T_a=25^\circ C$ at Rated DC Blocking Voltage @ $T_a=125^\circ C$	I_R	5 100		μA
Typical Junction Capacitance (Note1)	C_j	100		pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	60 10 12		$^\circ C/W$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150		$^\circ C$

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

2. P.C.B. mounted with 4x1.5"x1.5" (3.81x3.81 cm) copper pad areas.

Typical Characteristics

Fig.1 Average Rectified Output Current Derating Curve

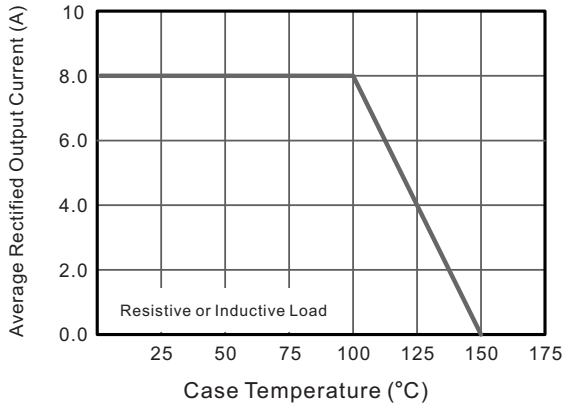


Fig.2 Typical Reverse Characteristics

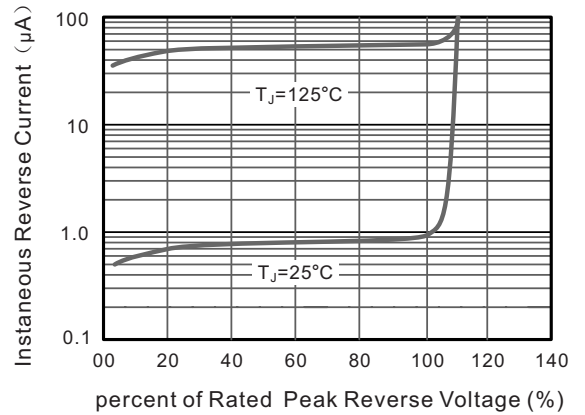


Fig.3 Typical Instantaneous Forward Characteristics

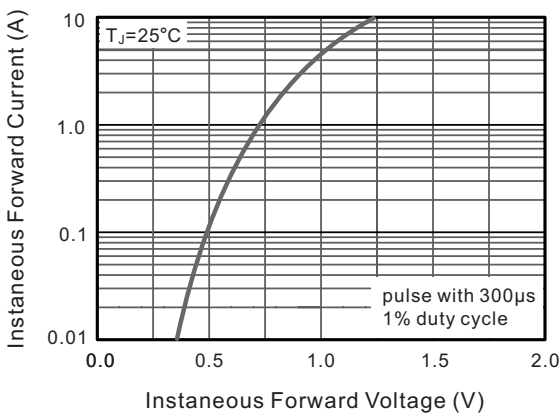


Fig.4 Typical Junction Capacitance

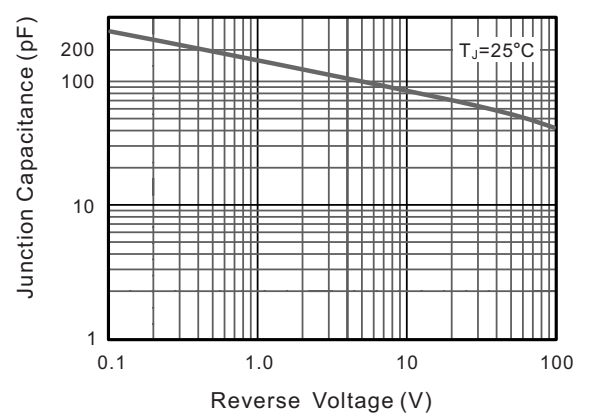


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

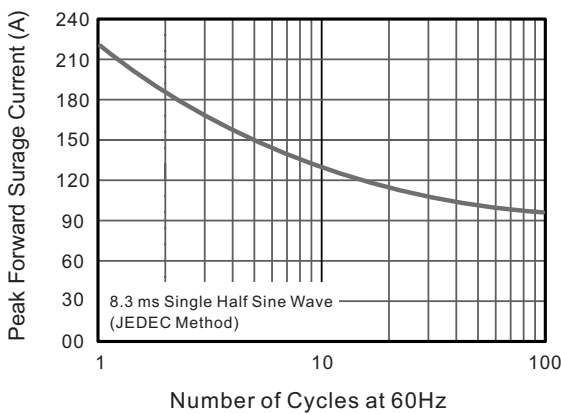
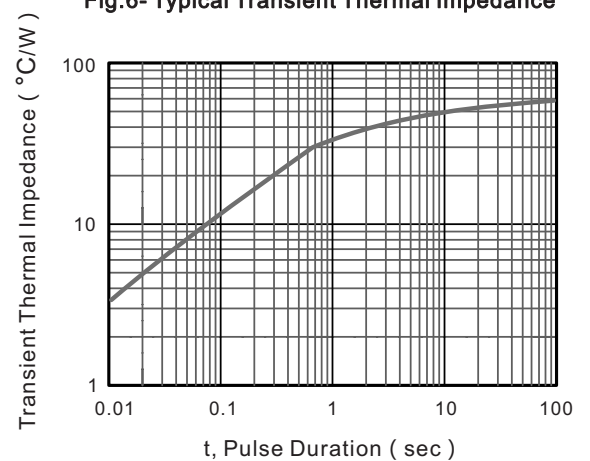
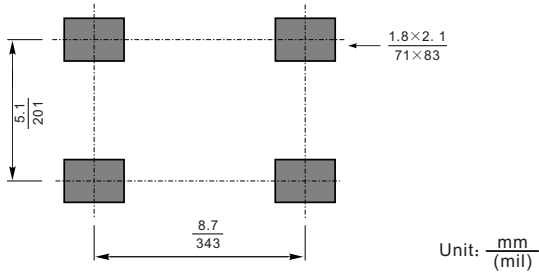


Fig.6 Typical Transient Thermal Impedance



The curve above is for reference only.

Suggested Pad Layout



Note:

1. Controlling dimension: in/millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.