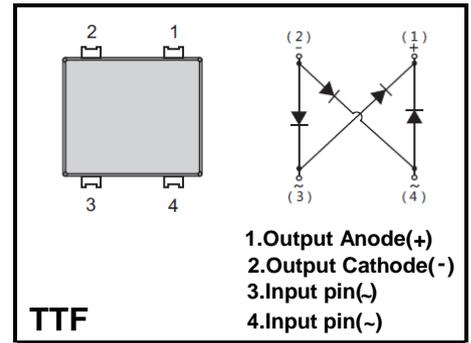


10A SURFACE MOUNT BRIDGE RECTIFIER
Reverse Voltage - 100 to 1000 V
Forward Current - 10 A
FEATURES

- ◆High Surge Current Capability
- ◆Designed for Surface Mount Application

MECHANICAL DATA

- ◆Case: TTF
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Approx. Weight: 0.461g / 0.0163oz



Marking Code	
TT1001F	YFW TT1001F
TT1002F	YFW TT1002F
TT1004F	YFW TT1004F
TT1006F	YFW TT1006F
TT1008F	YFW TT1008F
TT1010F	YFW TT1010F

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	TT1001F	TT1002F	TT1004F	TT1006F	TT1008F	TT1010F	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
Average Rectified Output Current	I_o	10						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 (JEDEC Method)	I_{FSM}	440						A
I^2t Rating for fusing (3ms≤t≤8.3ms)	I^2t	200						A ² S
Maximum Forward Voltage at 5 A	V_F	1.05						V
Maximum DC Reverse Current @T _A =25 °C at Rated DC Blocking Voltage @T _A =125 °C	I_R	5 500						μA
Typical Junction Capacitance (Note1)	C_j	70						pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	32 7 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. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Fig.1 Average Rectified Output Current Derating Curve

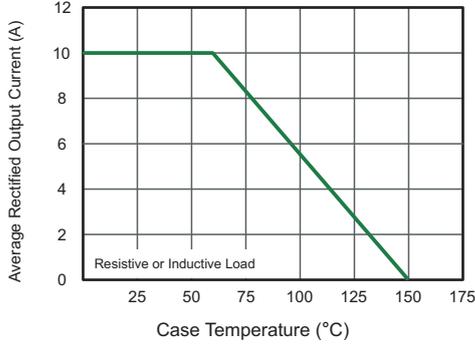


Fig.2 Typical Reverse Characteristics

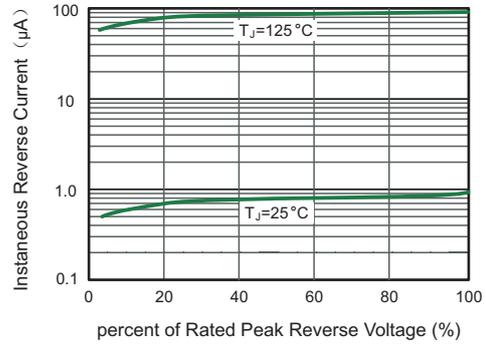


Fig.3 Typical Instantaneous Forward Characteristics

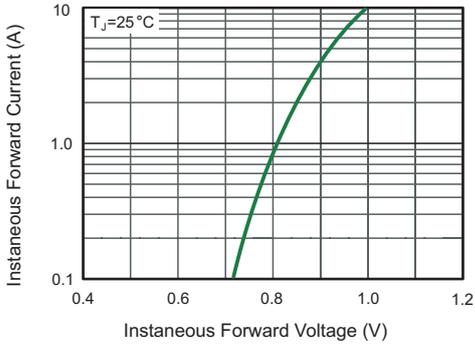


Fig.4 Typical Junction Capacitance

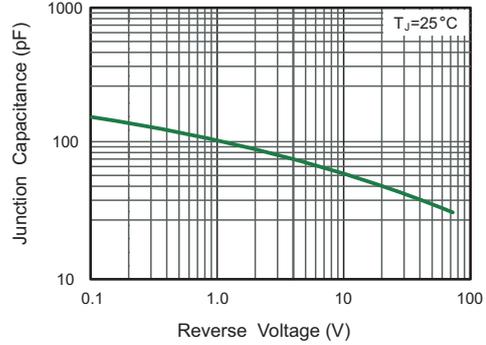
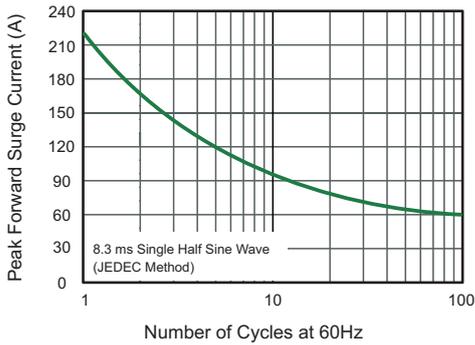
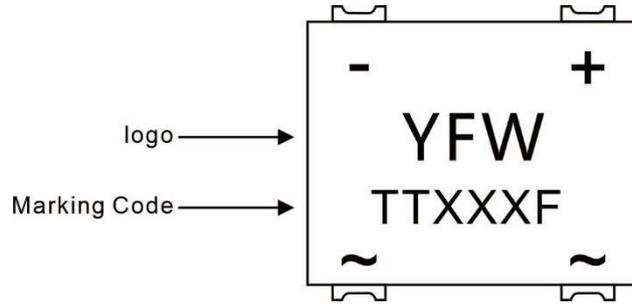


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking Diagram



Ordering information

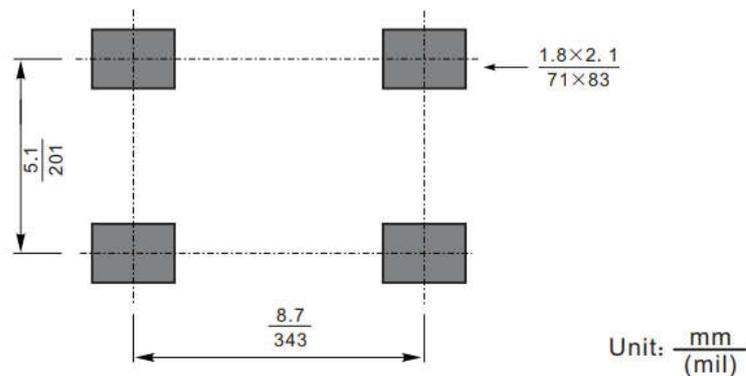
Package	Packing Description	Packing Quantity
TTF	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

Package Dimensions

TTF

Dim.	Millimeter(mm)		(mil)	
	Min.	Max.	Min.	Max.
A	1.35	1.75	53	68
C	0.25	0.55	9.8	21.6
D	9.4	9.8	370	385
E	8.4	8.8	330	346
E ₁	9.8	10.2	385	401
L	0.85	1.25	33	49
e	4.9	5.3	193	209
b	1.25	1.55	49	61
∠	10°			

The recommended mounting pad size



Disclaimer

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