RUBF806

SURFACE MOUNT RAPID RECOVERY
GLASS PASSIVATED BRIDGE RECTIFIER

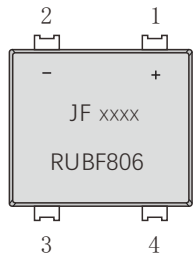
Reverse Voltage: 600 Volts
Forward Current: 8.0 Amps

UBF

FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage - 600 V
- Forward Current - 8.0 A
- Fast reverse recovery time
- Designed for Surface Mount Application

HALOGEN FREE

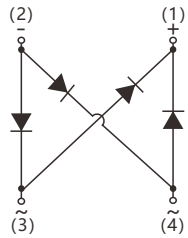


Marking:

JF:Logo
xxxx:Date code
RUBF806:Type
+-:Polarity

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

PARAMETER	SYMBOL	RUBF806	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Average Rectified Output Current	I_O	8.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200	A
I^2t Rating for Fusing (t=8.3ms)	I^2t	166	A^2S
Typical Thermal Resistance (1)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	60 6 14	°C/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55 ~ +150	°C

(1) Mounted on glass epoxy PC board with 4 X 1.5'' X 1.5''(3.81X3.81cm) copper pad

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITIONS	TYP	MAX	Units
Instantaneous forward voltage	V_F	I_F=8A T_j=25℃	–	1.10	V
Reverse current at DC blocking voltage	I_R	TJ=25℃ TJ=125℃	–	5 100	uA
Maximum Reverse Recovery Time	t_{rr}	Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A .	–	300	ns
Typical Junction Capacitance	C_j	f=1MHz,VR=4V DC T_j = 25℃	80	–	pF

Fig.1 Average Rectified Output Current Derating Curve

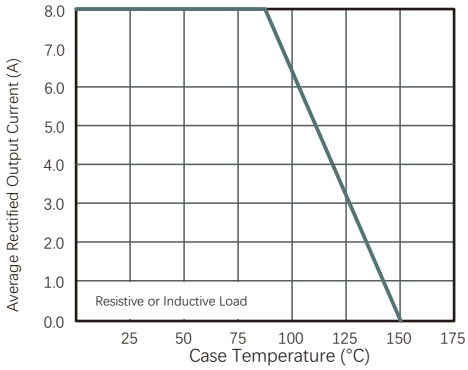


Fig.2 Typical Reverse Characteristics

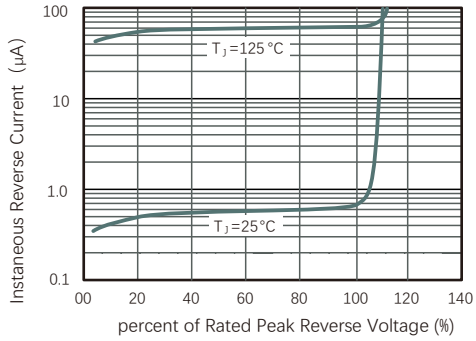


Fig.3 Typical Instaneous Forward Characteristics

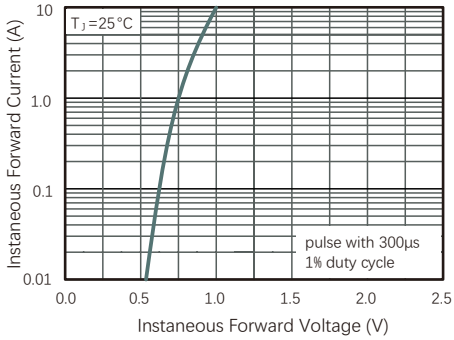


Fig.4 Typical Junction Capacitance

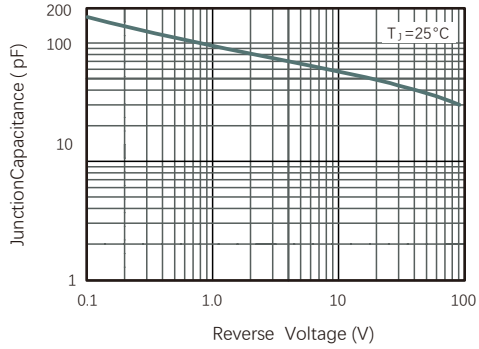


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

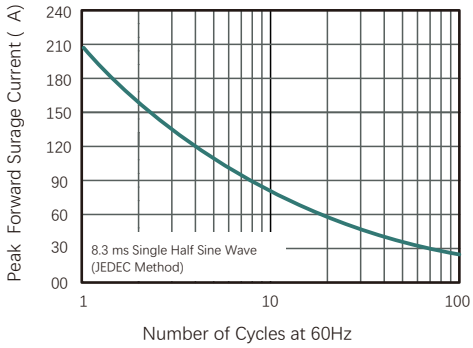
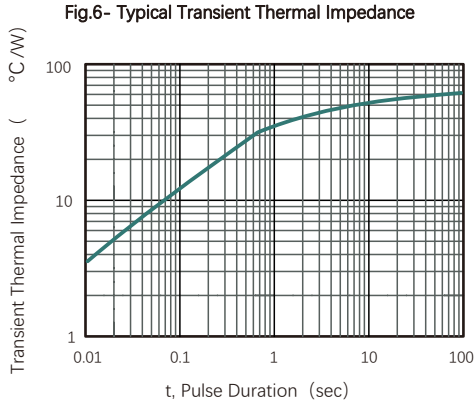


Fig.6- Typical Transient Thermal Impedance



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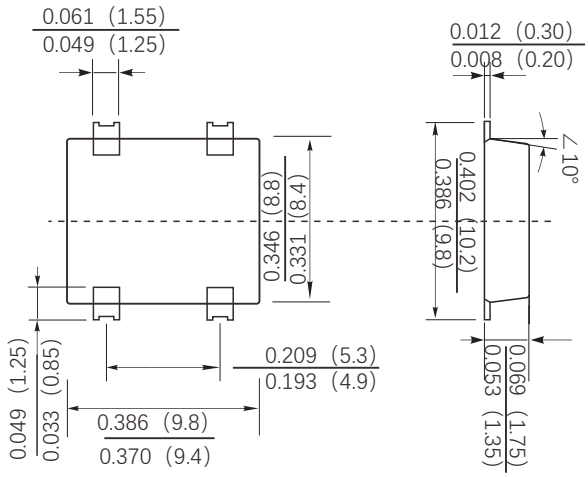
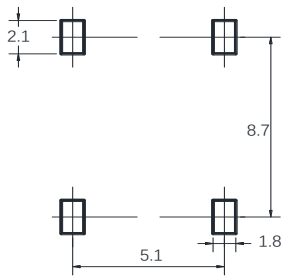


Suggested solder pad layout



(设计者可参考推荐值根据焊接工艺
要求自行确定适合的焊盘尺寸)
(Designers can refer to the recommended
values according to the manufacturing process
requirements to determine the appropriate pad size)

Dimensions in millimeters

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