# MICONDUCTOR

## UBF1206

#### **GLASS PASSIVATED BRIDGE RECTIFIER** Reverse Voltage: 600 Volts

Forward Current: 12.0 Amps

#### UBF **FEATURES:** Marking: 2 1 • Glass Passivated Chip Junction r----JF:Logo • Reverse Voltage - 600 V HALOGEN *FREE* xxxx:Date code JF xxxx • Forward Current - 12.0 A UBF1206:Type UBF1206 • Designed for Surface Mount Application +-:Polarity 3 4 **MECHANICAL DATA** • Case: UBF (2)

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

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified



 $(\widetilde{4})$ 

PARAMETER	SYMBOL	UBF1206	
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS voltage	Vrms	420	V
Maximum DC Blocking Voltage	Vdc	600	V
Average Rectified Output Current	lo	12.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	350	A
I <sup>2</sup> t Rating for Fusing (t=8.3ms)	l <sup>2</sup> t	508	A <sup>2</sup> S
Typical Thermal Resistance (1)	апсе <sup>(1)</sup> RejA 60 Rejc 6 RejL 14		°C/W
Operating and Storage Temperature Range	T j,Tstg	-55 ~ +150	

(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  $^\circ\!\!\mathbb{C}$  ambient temperature unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITIONS	ТҮР	МАХ	Units
Instantaneous forward voltage	V <sub>F</sub>	I₅=12A T,=25℃	_	1.00	V
Reverse current at DC blocking voltage	I <sub>R</sub>	T,=25℃ T,=125℃	-	5 100	uA
Typical Junction Capacitance	Cj	f=1MHz,VR=4V DC T,= 25℃	82	_	рF

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### RATINGS AND CHARACTERISTICS OF UBF1206

Derating Curve 14.0 12.0 10.0 8.0

Fig.1 Average Rectified Output Current



Fig.3 Typical Instaneous Forward Characteristics





#### Fig.2 Typical Reverse Characteristics



Fig.4 Typical Junction Capacitance











#### Suggested solder pad layout



(设计者可参考推著位根据焊接工艺 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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