

UMB05S~UMB10S SURFACE MOUNT BRIDGE RECTIFIERS

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- Low Leakage Current
- High Forward Surge Capability
- Designed for Surface Mount Application
- Plastic Material UL Flammability 94V -O

Mechanical Date

- Case: SOF2-4 Molded Plastic
- Terminals: Solder plated, Solderable per J-STD-002B and JESD22-B102D
- Polarity: As Marked on body
- Marking: Type Number
- Lead Free: For ROHS/Leadfree Version

Major Ratings and Characteristics

I _{F(AV)}	0.8 A
V _{RRM}	50 V to 1000 V
I _{FSM}	25 A
I _R	5 µA
V _F	1.1 V
T _j max.	150 °C



SOF2-4S

州市钜兴电

Maximum Ratings & Thermal Characteristics(T_A = 25 °C unless otherwise noted)

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Items	Symbol	UMB05S	UMB1S	UMB2S	UMB4S	UMB6S	UMB8S	UMB10S	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	0.8 ¹⁾					A		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	I _{FSM}	25					А		
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					°C		

1):Mounted on glass epoxy P.C.B with 1.2×0.8mm² pads $_{\circ}$

Electrical Characteristics(T_A = 25 °C unless otherwise noted)

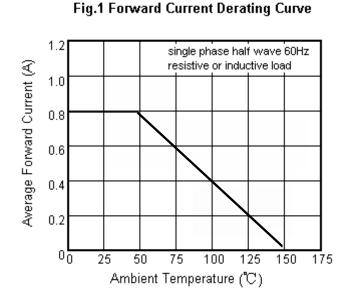
Items	Test conditions	Symbol	Min	Туре	Мах	UNIT
Instantaneous forward voltage	I _F =0.8A ²⁾	V _F	-	0.95	1.1	V
Doverse ourrent	erse current $\begin{array}{c} T_{A} = 25 \ ^{\circ}C \\ T_{A} = 125 \ ^{\circ}C \end{array} \qquad I_{R}$	-	-	5		
Reverse current		I R	-	-	100	μA

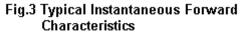
2):Pulse test: 300µS pulse width,1% duty cycle.



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Characteristic Curves (T_A=25 °C unless otherwise noted)





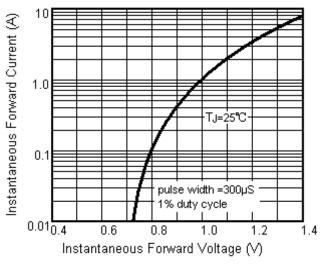


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

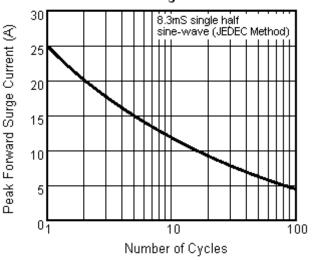
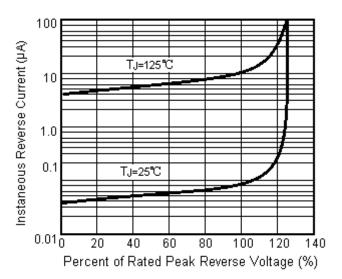


Fig.4 Typical Reverse Characteristics



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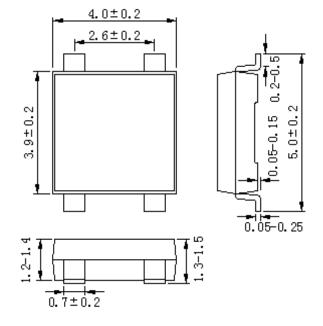
GUANGZHOU JUXING ELECTRONICS



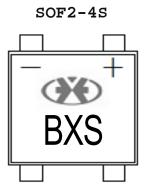
UMB05S~UMB10S

SURFACE MOUNT BRIDGE RECTIFIERS

Package Outline



Marking Code



Туре	Code		
UMB05S	B1S		
UMB1S	B2S		
UMB2S	B3S		
UMB4S	B4S		
UMB6S	B5S		
UMB8S	B6S		
UMB10S	B7S		

 $\mathbf{\Theta}$

- Trademark;
- BXS =Marking Code, Product Specification,See the table

Soldering Pad

