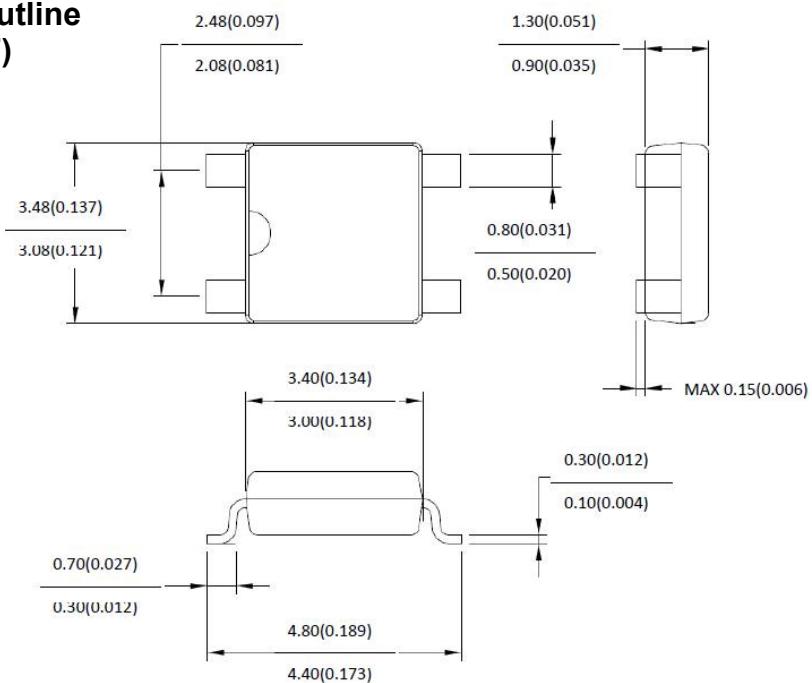


Features

- Low profile space
- Ideal for automated placer....
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

**Package Outline
(XMBF)**

Mechanical Data

- Case: XMBF Molded Plastic Over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: polarity symbols marked on body

Dimensions in millimeters and (inches)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	XMB 05F	XMB 1F	XMB 2F	XMB 4F	XMB 6F	XMB 8F	XMB 10F	UNITS
Peak Repetitive Reverse Voltage	VR _{RM}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	
DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Average Rectified Output Current (Note1) @TA = 30°C On glass-epoxy PCB(1) On aluminum substrate(2)	IF(AV)				0.5 0.8				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				20				A
Forward Voltage per element @IF = 0.4A(3)	V _{FM}				1.0				V
Peak Reverse Current At Rated DC Blocking Voltage @TA = 25°C @TA = 100°C	IR _M				5 100				uA
Typical Thermal Resistance from junction to ambient per leg	R _{θ JA} (1) R _{θ JA} (2)				100 80				°C/W
Typical Thermal Resistance from junction to lead per leg	R _{θ JL}				30				°C/W
Operating junction temperature range	T _J				-55 TO 150				°C
Operating and Storage Temperature Range	T _{STG}				-55 TO 150				°C

Note 1: On glass epoxy P.C.B. mounted on 0.06×0.04" (1.5×1.1mm) pads

Note 2: On aluminum substrate P.C.B. with an area of 0.8×0.8" (20×20mm) mounted on 0.06×0.04" (1.5×1.1mm) solder pad

Note 3: Pulse test: 300μs pulse width, 1% duty cycle.

Ratings and Characteristics Curves(TA=25°C unless otherwise noted)

