# Single Phase 0.8 AMP. Glass Passivated Bridge Rectifiers

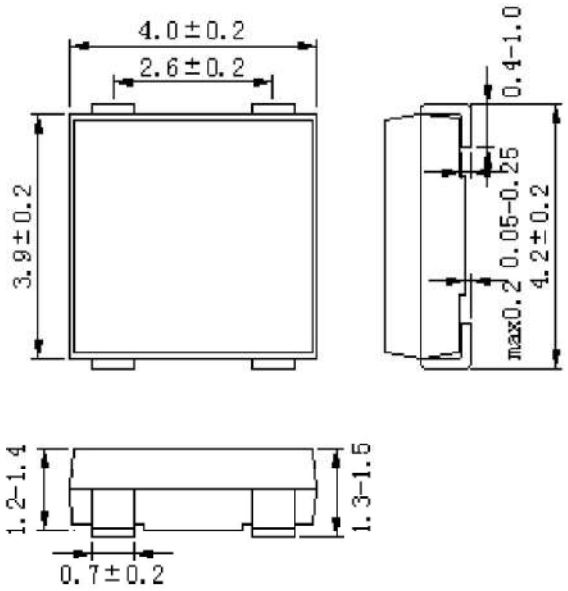
## Features

- 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

## Mechsnical Date

- **Case:** TLM-J 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

LXM




Dimensions in millimeters

## 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 | KLX005M | KLX01M | KLX02M | KLX04M | KLX06M | KLX08M | KLX10M | 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 | $I_{F(AV)}$ | 0.5[1)] | | | | | | | A |
| | | 0.8[2)] | | | | | | | |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | $I_{FSM}$ | 20 | | | | | | | A |
| Operating junction and storage temperature range | $T_J$, $T_{STG}$ | –55 to +150 | | | | | | | ℃ |

1):Mounted on glass epoxy P.C.B with 1.2×1.5mm$^2$ pads。

2):Mounted on aluminum substrate P.C.B with 1.2×1.5mm$^2$ pads。

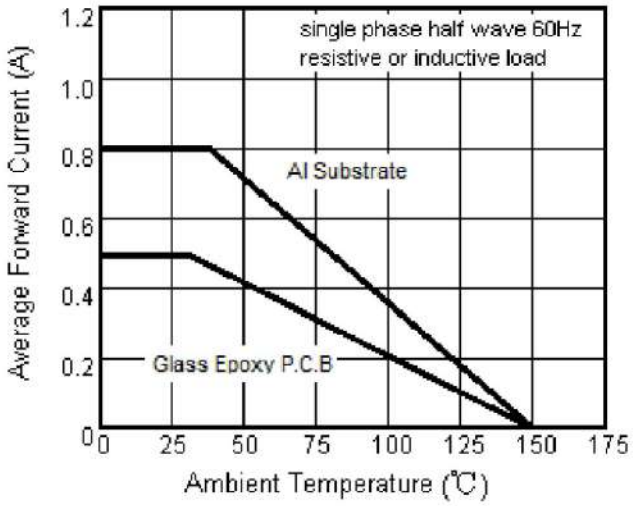
## Electrical Characteristics ($T_A$ = 25 °C unless otherwise noted)

| Items | Test conditions | Symbol | Min | Type | Max | |
|---|---|---|---|---|---|---|
| Instantaneous forward voltage | $I_F$=0.5A[3)] | $V_F$ | - | 0.95 | 1.1 | V |
| Reverse current | $T_A$ = 25 ℃ | $I_R$ | - | - | 5 | μA |
| | $T_A$ = 125 ℃ | | - | - | 100 | |

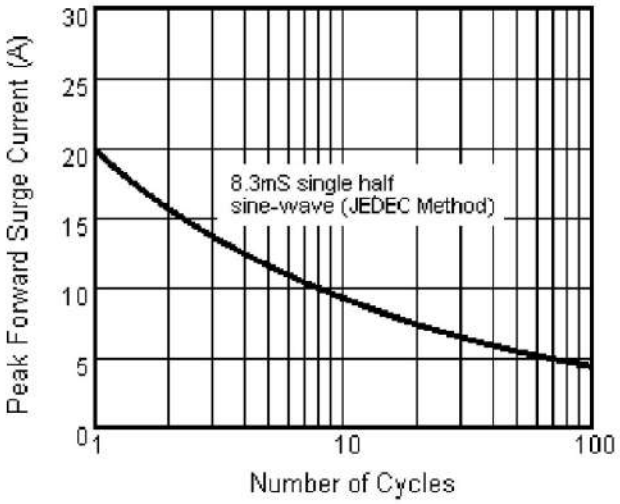
3):Pulse test: 300μS pulse width,1% duty cycle.

## Characteristic Curves ($T_A$=25 ℃ unless otherwise noted)

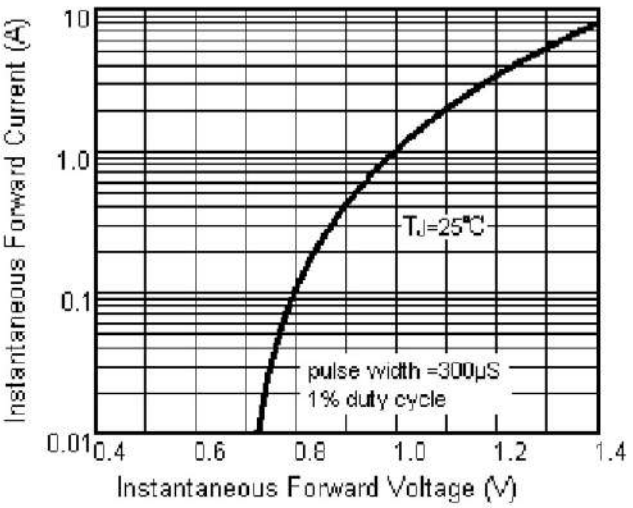
### Fig.1 Forward Current Derating Curve




### Fig.2 Maximum Non-Repetitive Peak Forward Surge Current




### Fig.3 Typical Instantaneous Forward Characteristics




### Fig.4 Typical Reverse Characteristics