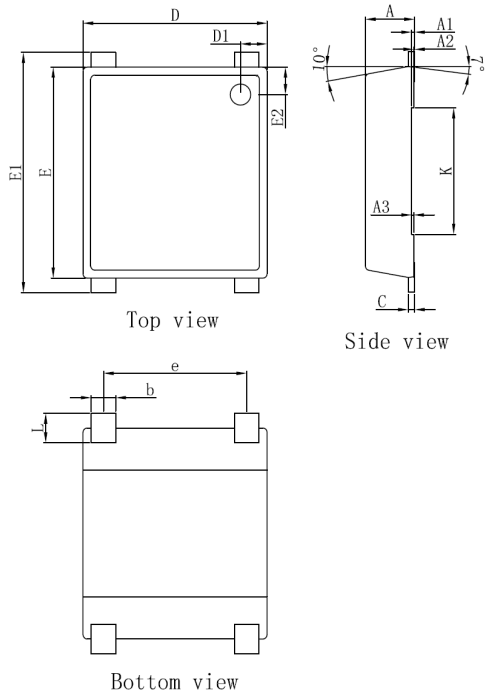
## Package Dimension :

**MSB**




| MSB | | | |
|---|---|---|---|
| Dim. | Min. | Typ. | Max. |
| A | 1.10 | 1.20 | 1.30 |
| A1 | 0.05 | --- | 0.08 |
| A2 | 0.00 | 0.02 | 0.05 |
| A3 | 0.03 | 0.05 | 0.08 |
| C | 0.12 | 0.15 | 0.18 |
| D | 4.40 | 4.5 | 4.60 |
| D1 | 0.60 | 0.65 | 0.70 |
| E | 4.90 | 5.00 | 5.10 |
| E1 | 5.80 | 5.90 | 6.10 |
| E2 | 0.60 | 0.65 | 0.70 |
| L | 0.70 | 0.80 | 1.00 |
| b | 0.55 | 0.60 | 0.70 |
| e | 3.45 | 3.50 | 3.55 |
| K | 2.95 | 3.00 | 3.05 |
| All dimensions in millimeter | | | |

# RATING AND CHARACTERISTIC CURVES
# MSB08M

LITEON

**FIG.1-FORWARD CURRENT DERATING CURVE**

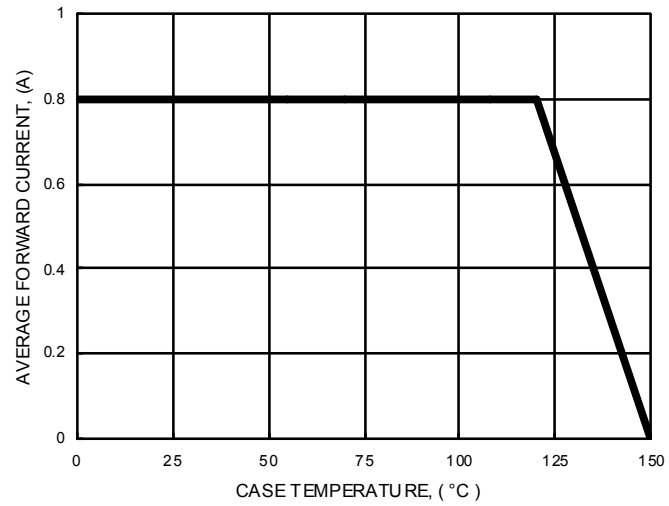



**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**

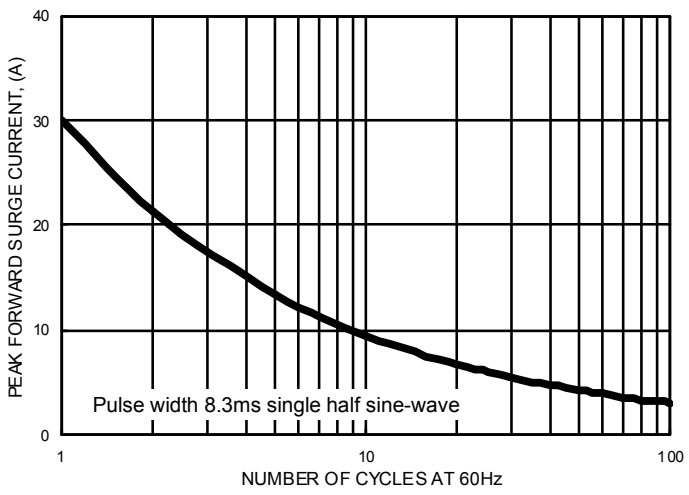



**FIG.3- TYPICAL FORWORD CHARACTERISTICS**

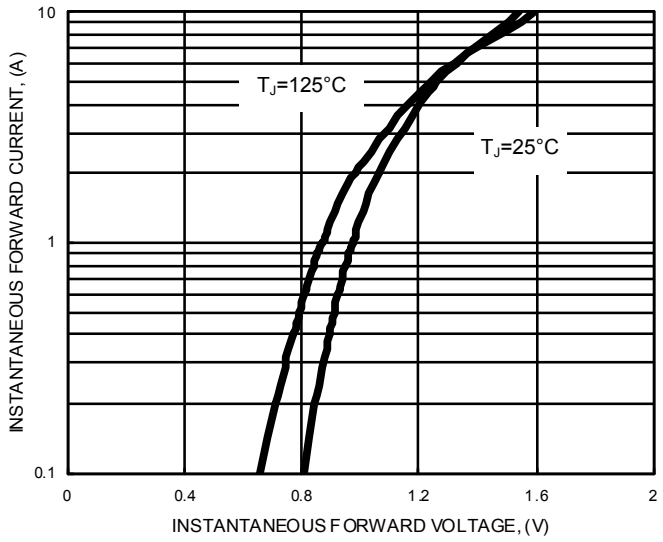



**FIG.4-TYPICAL JUNCTION CAPACITANCE**

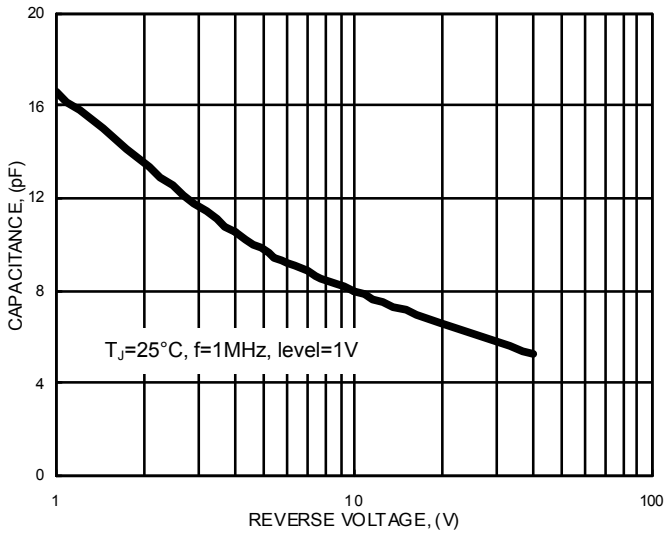
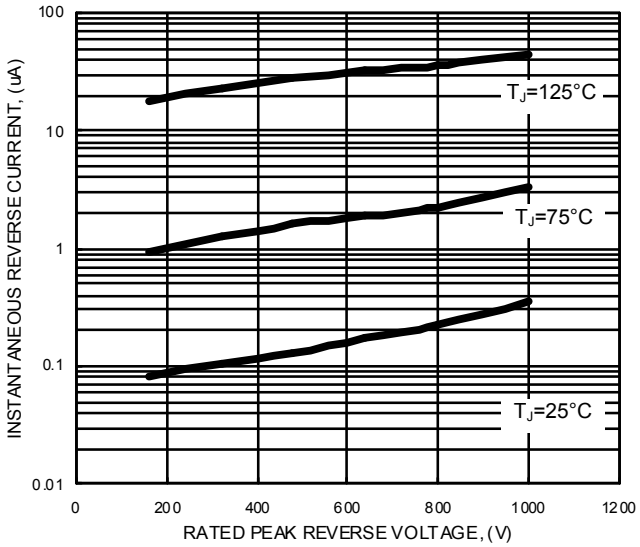


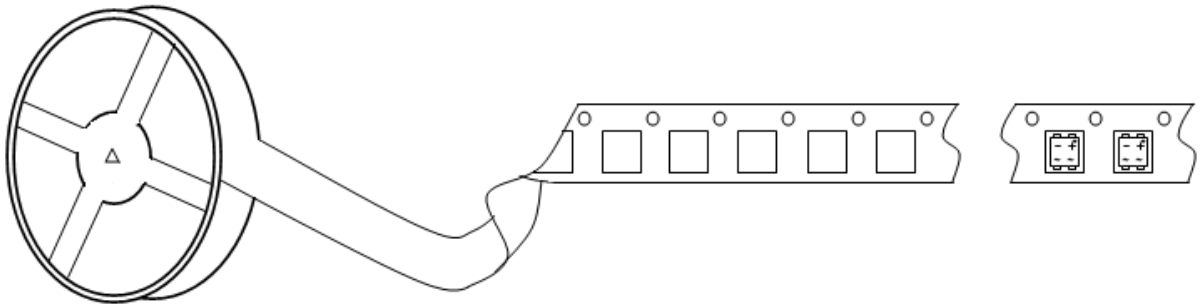

**FIG.5-TYPICAL REVERSE CHARACTERISTICS**



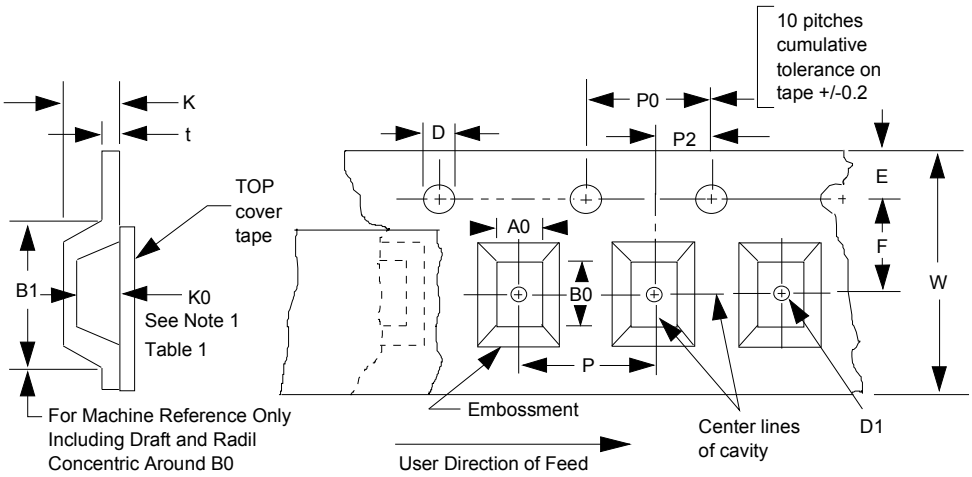
**PACKING INFORMATION**
**MSB08M**

## Packaging Information :

| DEVICE | Q'TY/REEL (PCS) | REEL DIA. (mm) | BOX SIZE (mm) | Q'TY/BOX (PCS) | CARTON SIZE (mm) | Q'TY/CARTON (PCS) | MOQ |
|---|---|---|---|---|---|---|---|
| MSB08M | 3000 | 330 | 334x334x21 | 3000 | 365x365x355 | 36K | 36K |



## Embossed Carrier Dimension :




UNIT: mm

| TAPE SIZE | D | E | PO | t (MAX) | A0 | B0 | K0 |
|---|---|---|---|---|---|---|---|
| 12mm | 1.55+0.10/-0.0 | 1.75+/-0.10 | 4.0+/-0.10 | 0.4 | 4.8+/-0.1 | 6.0+/-0.1 | 1.5+/-0.1 |
| | B1 (MAX) | D1 (MIN) | F | K (MAX) | P2 | W | P |
| | 8.2 | 1.5 | 5.5+/-0.1 | 2.2 | 2.0+/-0.05 | 12.0+/-.30 | 8.0+/-0.1 |

## Typical IR Reflow Soldering Thermal Profile :

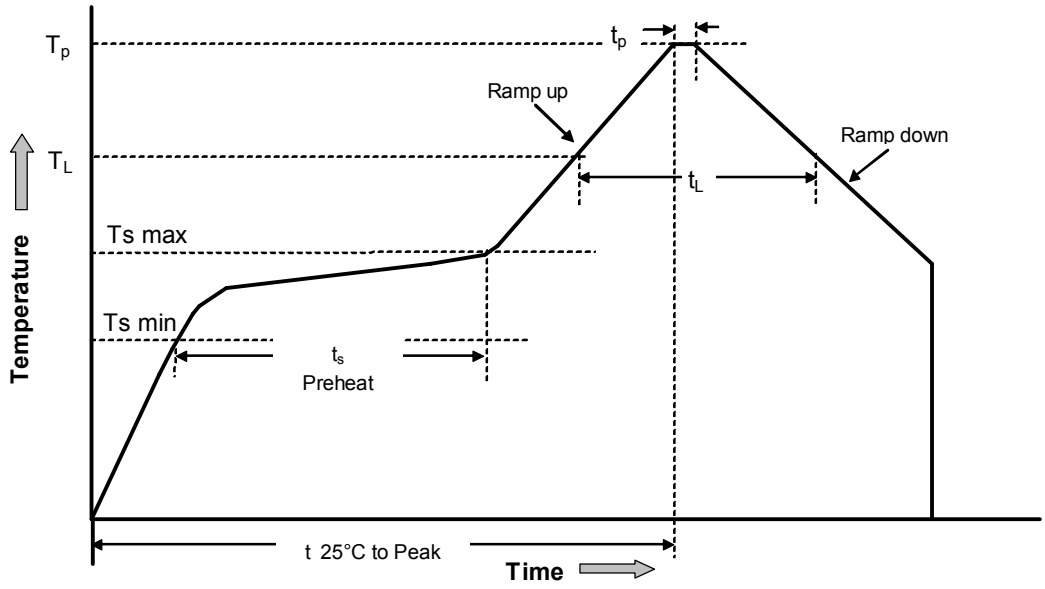



**Table 1- Reflow profile**

| Reflow condition | Sn-Pb assembly | Pb-free assembly |
|---|---|---|
| Average ramp-up rate (Liquidus Temperautre (TL) to Peak) | 3 °C/second max. | 3 °C/second max. |
| Preheat<br>--Tempautre Min, Ts (Min)<br>--Temperature Max, Ts (Max)<br>--Time (min to max, ts) | <br>100 °C<br>150 °C<br>60-120 seconds | <br>150 °C<br>200 °C<br>60-180 seconds |
| Ts(max) to TL<br>- Ramp-up Rate | | 3 °C/second max. |
| Time maintained above:<br>--Temperature(TL)<br>--Time(tL) | <br>183 °C<br>60-150 seconds | <br>217 °C<br>60-150 seconds |
| Peak Temperature (Tp) | 240 +0/-5 °C | 260 +0/-5 °C |
| Time within 5 °C of actual Peak Temperature(tp) | 10-30 seconds | 20-40 seconds |
| Ramp-down Rate | 6 °C/second max. | 6 °C/second max. |
| Time 25 °C to Peak Temperature. | 6 minutes max. | 8 minutes max. |

**Note: All temperatures refer to topside of the package, measured on the package body surface**

# Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.