

## Estimated Failure Rate

Product Name	Estimated Failure Rate
TMP89FM42KUG	9 Fit

Note)

This failure rate was calculated on the assumption that the device operated normally at  $T_a = 60$  deg.C, under normal environmental conditions without any surge, etc.

Data from the same technology with the reported device above was used for this calculation.

The Estimated Failure Rate contained herein represents the result of our internal product reliability tests, and is provided for your reference only.  
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Product Name: TMP89FM42KUG

Package Name: LQFP44

### 1.Reflow

Number: 2 times maximum

Peak temperature : 260 deg.C maximum instantaneously

Heat : 230 deg.C minimum for 30 to 50 seconds

Pre-heat : 150 to 190 deg.C for 60 to 120 seconds

NOTE: All temperatures refer to the package body surface.

The heat-resistant temperature profile is shown in Fig.1.

The temperatures in this profile are the maximum guaranteed temperatures that the device endures.

Select the temperatures for a pre-heat and a heat most suitable for your solder paste type, etc. within the conditions described in Fig.1.

Since this package is a dry bag product, from opening to the final reflow should take place within 168hr at 30deg.C/70%RH.

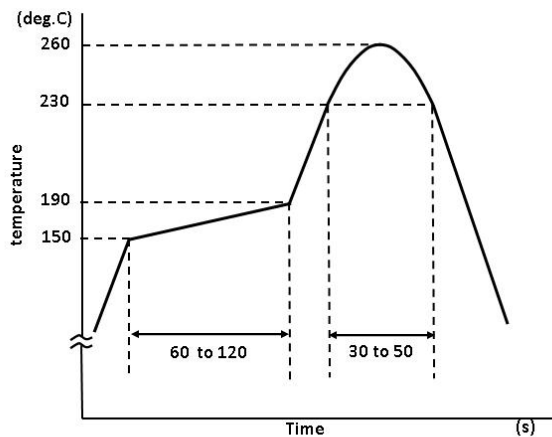


Fig.1 Example of Heat-resistant Temperature Profile

### 2.Others

We urge you to verify well before mounting to assure enough solder joint strength.

Always solder the Product in accordance with the heat-resistance mounting conditions set forth above. In the event the Product is soldered otherwise, the applicable product warranty, if any, is void.

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