

Reliability Data for TMS320LF24xx and TMS320F28xx Devices

C2000 Quality Engineering

ABSTRACT

This document provides the reliability data for C2000™ DSP devices, specifically for the 24xx and 28xx family of devices. The charts provide the estimated package lifetime of these devices over temperature. For additional information on TI packaging and thermal nomenclature, see the *IC Package Thermal Metrics* ([SPRA953](#)).

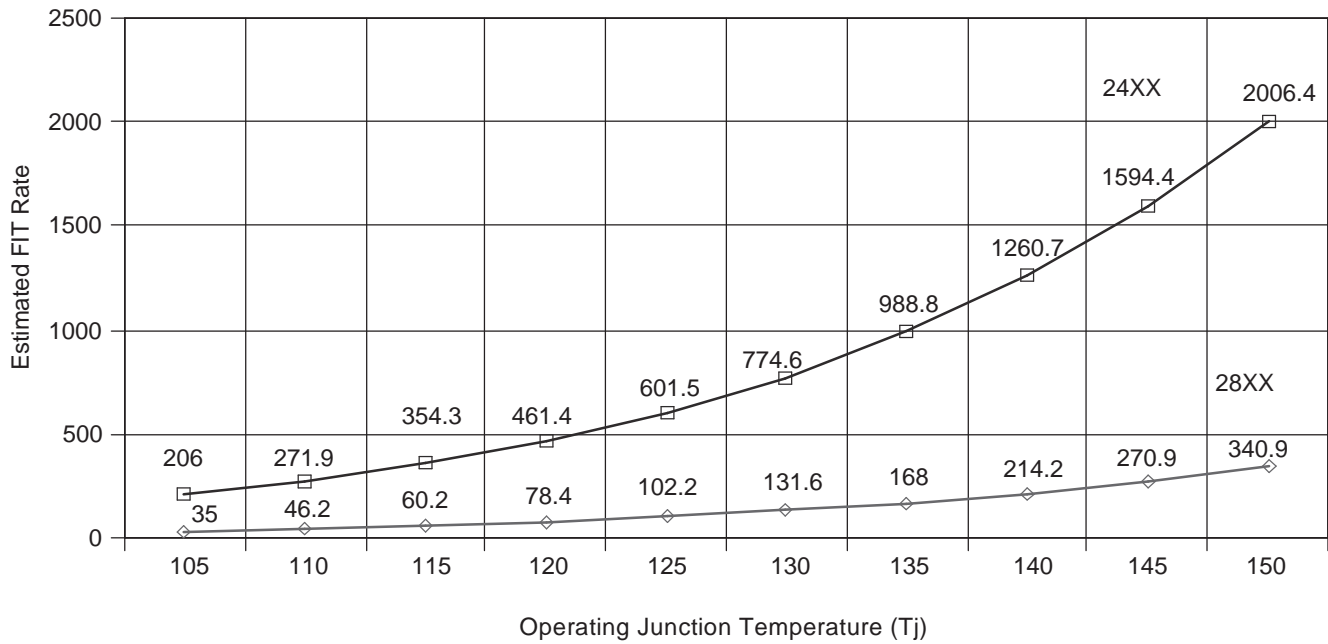
1 Charts

The 24xx family include the following devices. See the device-specific data sheet for package and electrical specifications.

TMS320LF2407/TMS320LF2407A	TMS320LC2404A
TMS320LF2406/TMS320LF2406A	TMS320LC2406A
TMS320LF2403A	TMS320LC2402A
TMS320LF2402/TMS320LF2402A	TMS320LC2401A
TMS320LF2401A	

The F28xx family includes the following devices. See the device-specific data sheet for package and electrical specifications.

TMS320F2812	TMS320C2812	TMS320F2808	TMS320R2811	TMS320F28035	TMS320F28027
TMS320F2811	TMS320C2811	TMS320F2806	TMS320R2812	TMS320F28034	TMS320F28026
TMS320F2810	TMS320C2810	TMS320F2801		TMS320F28033	TMS320F28023
				TMS320F28032	TMS320F28022
				TMS320F28031	TMS320F28021
				TMS320F28030	TMS320F28020
					TMS320F280200



- A See the data sheet for absolute maximum and recommended operating conditions.
- B FIT is estimated failure-in-time (1 failure per 1E+9 power-on-device hours) at device operating junction temperature (Tj).
- C For recommended thermal calculations, see *IC Package Thermal Metrics* ([SPRA953](#)).
- D See attached TI disclaimer.

Figure 1. FIT Rate vs. Operating Junction Temperature

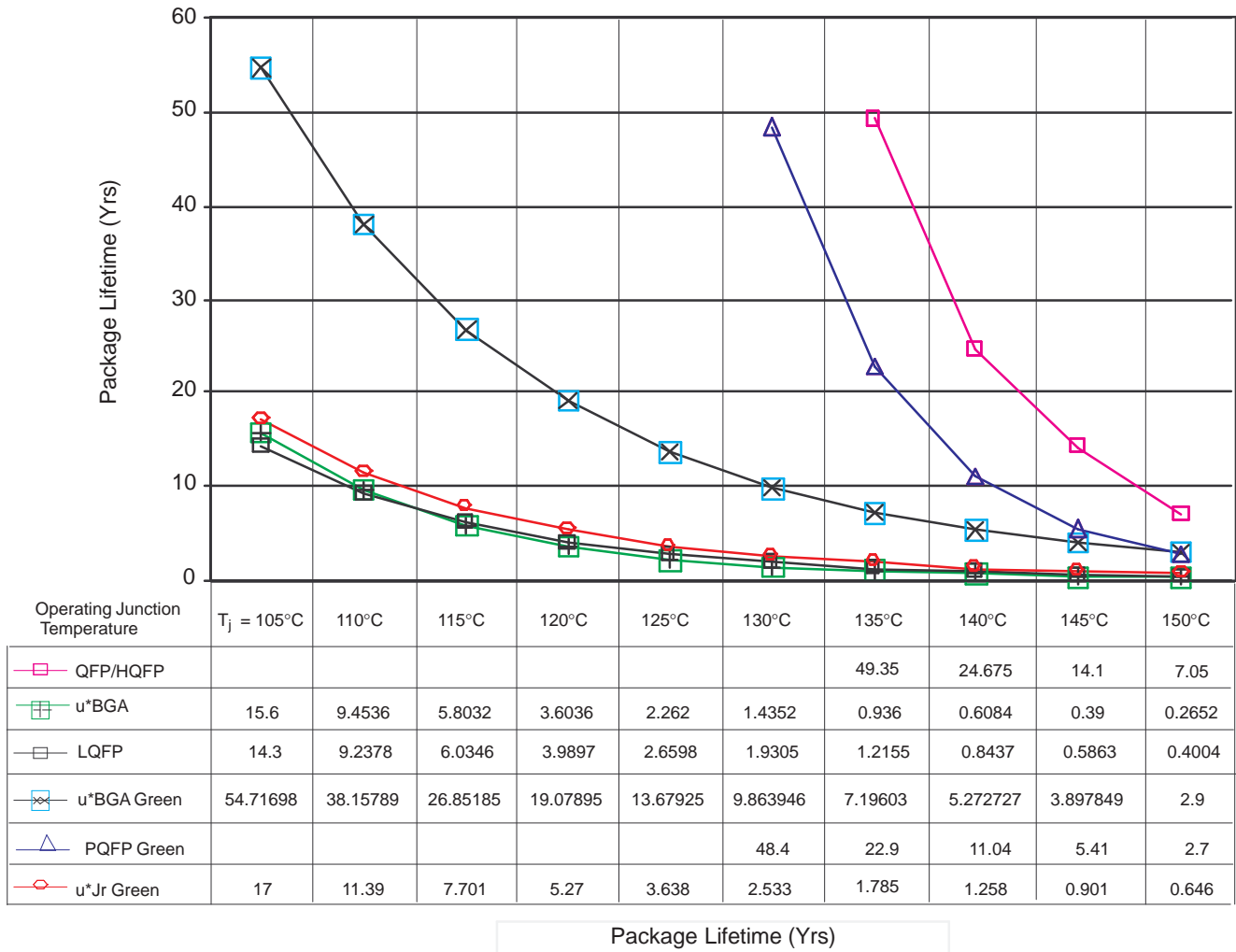


Figure 2. Package Lifetime vs. Operating Junction Temperature (T_j)

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