



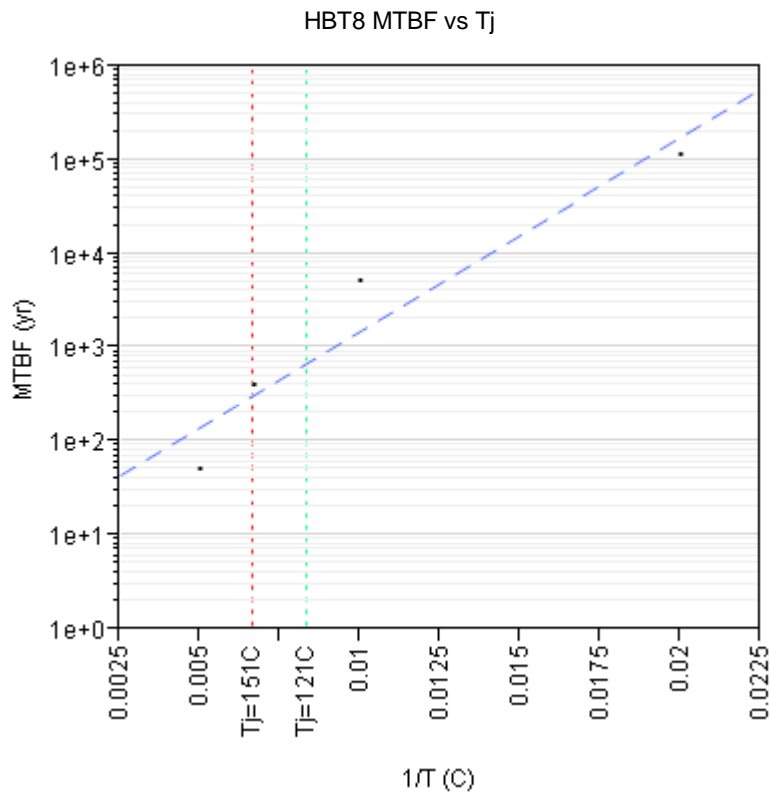
## RF5602 Reliability Report

### Introduction

The RF5602 is a linear power amplifier IC designed specifically for medium power applications. The device is manufactured on an advanced InGaP Heterojunction Bipolar Transistor (HBT) process, and has been designed for use as the final RF amplifier in 802.11b/g/n access point transmitters. The device is provided in a 3mmx3mmx0.45mm, 16-pin, leadless chip carrier with a backside ground. The RF5602 is designed to maintain linearity over a wide range of supply voltages and power outputs.

### Random Failure Rate

Based on the existing HTOL data set consisting of all released HBT8 parts, the MTBF for HBT8 vs channel temperature is given in the graph below. The data set consists of over 30 million accelerated hours of stress at 125 C, and assumes an activation energy of 0.7 eV.



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