## Diode, low frequency

## Base Failure Rate $\lambda_b$

Diode Type/Application	$\lambda_b$ [Failures/10 $^6$ Hours]
General Purpose Analog	0.0038
Switching	0.0010
Power Rectifier, Fast Recovery	0.069
Power Rectifier/Schottky Power Diode	0.0030
Power Rectifier with High Voltage	0.0050/Junction
Stacks	
Transient Suppressor/Varistor	0.0013
Current Regulator	0.0034
Voltage Regulator and Voltage	0.0020
Reference (Avalance and Zener)	

# Diode, high frequency (Microwave, RF)

## Base Failure Rate $\lambda_b$

Diode Type	$\lambda_b$ [Failures/10 $^6$ Hours]
SI IMPATT (≤ 35GHz)	0.22
Gunn/Bulk Effect	0.18
Tunnel and Back (Including Mixers,	0.0023
Detectors)	
PIN	0.0081
Schottky Barrier (Including Detectors)	0.027
and Point Contact (200 MHz ≤	
Frequency ≤ 35 GHz)	
Varactor and Step Recovery	0.0025

# Transistor, Low Frequency, bipolar

## Base Failure Rate $\lambda_b$

Туре	$\lambda_b$ [Failures/10 $^6$ Hours]
NPN and PNP	0.00074

# Transistor, Low Frequency, SI FET

## Base Failure Rate $\lambda_b$

Туре	$\lambda_b$ [Failures/10 $^{6}$ Hours]
MOSFET	0.012
JFET	0.0045