

MC2007

Product Bulletin

Product Affected: MC2007

Literature Affected: MC2007 Data Sheet - 2/11/2000, Mindspeed document # 02007-DSH-001-A

Under high power input conditions with detectors not connected to PINK, high power inputs resulting in more than 2 mA peak current may result in damage to the TIA. This damage is subtle and may manifest itself in the following ways:

- Reduced bandwidth
- Reduced sensitivity
- Both reduced bandwidth and reduced sensitivity
- In extreme cases, higher power supply current

Determining this damage by measuring the leakage into PINA is difficult at best, since the difference between a good and damaged part is only a few nano-amperes.

In applications using the internal PINK regulator to supply PIN diode bias, greater resistance to input overload is provided by the clamping action of the regulator output, however at currents much higher than 4 mA_{peak}, even the regulator output can be damaged by the resulting overvoltage from the PIN diode.