Circuit

Pin 5, Pin 7 and Pin 8 burned out

VCC+ : 8 = 37V

Input : 3

Output :1

Pin 2

Pin 5

Pin 6

Pin 7

unused circuit

VCC−:4 = −3V

Vin=3.3V

Charge Pump
Voltage Inverter
TPS60400

Vout = −3V

1uF

The customer power down the Vin=3.3V before the VCC+=37V power down.