

ABSOLUTE MAXIMUM RATINGS (25°C unless otherwise noted)

OPI 2000MK

INPUT DIODE FORWARD DC CURRENT REVERSE DC VOLTAGE POWER DISSIPATION	100mA 5 Volts 150mW (ii)
OUTPUT IC MAX SUPPLY VOLTAGE POWER DISSIPATION	7 Volts 165mW
OPERATING TEMP	-40°C TO +70°C
STORAGE TEMP	-40°C TO +85°C
LEAD SOLDERING TEMP 2mm from body 5 secs max	260°C
INPUT-TO-OUTPUT ISOLATION VOLTAGE	±10KV DC (i)

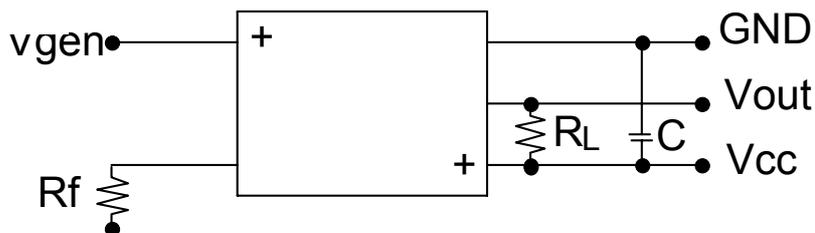
i) Measured with the input leads and output leads shorted together for one min.

ii) Thermal resistance 450 K/W

Whilst the devices are capable of operating continually at the noted elevated temperatures users should be aware of the possibility of the need to increase the diode current to trigger the device over long periods at high temperatures &

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
INPUT DIODE						
Forward Voltage	V _F	-	1.35	1.6	V	I _F =100mA tp=20mS
Reverse Voltage	V _R	5.0	-	-	V	I _r = 100uA
OUTPUT IC (V_{cc}=4.75 to 5.25)						
High level Output Current	I _{CH}		-	100	uA	I _c = 10 uA
Low Level Output Voltage	V _{OL}		-	0.6	V	I _F =10mA I _{OL} =2.6mA
High Level Supply Current	I _{CCH}			15	mA	I _F =0
Low Level Supply Current	I _{CCL}			18	mA	I _F =10mA
COUPLED(V_{cc}=5volts)						
Propagation Delay to Low Output	t _{PHL}			800	nSecs	R _L =560ohms C=0.01uF
Propagation Delay to High Output	t _{PLH}			800	nSecs	ditto

CIRCUIT



$$R_L = 560 \text{ ohm} \quad C = 0.01 \mu\text{F}$$

BEDFORD OPTO TECHNOLOGY LTD
1, BIGGAR BUSINESS PARK, BIGGAR, LANARKSHIRE, ML12 6FX
 Tel: +44 (0) 1899 221221 Fax: +44 (0) 1899 221009
 Website: bot.co.uk E-mail: bill@bot.co.uk

9..4.03
ISS C