

Photovoltaic MOS-FET Driver

Features

- High-speed switching
- 2500Vrms Input/Output isolation

Applications

- MOS-FET driver
- Power supply (Vcc) for electronic circuits

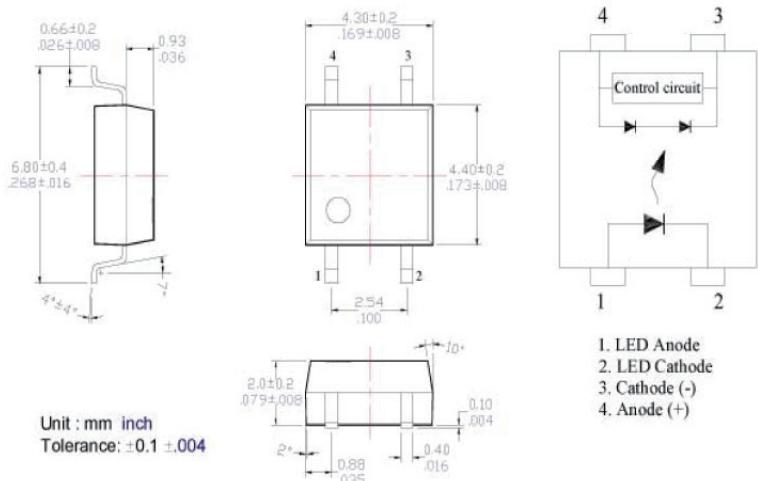
Absolute Maximum Ratings (Ambient Temperature: 25°C)

Item		Symbol	LTP-1G2	LTP-1G3	Note
Input	Continuous LED Current	IF	50 mA		
	Peak LED Current	IFP	1000 mA		f=100Hz, duty=1%
	LED Reverse Voltage	VR	5 V		
	Input Power Dissipation	Pin	75 mW		
I/O Breakdown Voltage		V _{I/O}	2500 V		RH=60%, 1min
Operating Temperature		T _{opr}	-40°C to +85°C		
Storage Temperature		T _{stg}	-40°C to +100°C		

Electrical Specifications (Ambient Temperature: 25°C)

Item			Symbol	LTP-1G2	LTP-1G2	Conditions
Input	LED Forward Voltage	Typ	VF	1.2 V		IF=10mA
		Max		1.4 V		
	Operation LED Current	Typ	IFon	0.5 mA	0.7 mA	Voc=5V
		Max		3.0 mA		
Output	Recovery LED Current	Min	IFoff	0.35 mA		Voc=1V
		Typ		0.5 mA		
	Drop-out Voltage	Min	VCC	6V	7V	IF=10mA
		Typ		8V	8.5V	
Transmission	Short Circuit Current	Min	ISC	3uA	5uA	IF=10mA
		Typ		8uA	15uA	
	Turn-On Time	Typ	T _{on}	0.23ms		IF=10mA CL=1000pF
	Turn-Off Time	Typ	T _{off}	0.03ms		
Coupled	I/O Isolation Resistance	Min	R _{I/O}	10 ¹⁰ Ω		DC500V
	I/O Capacitance	Typ	C _{I/O}	1.5 pF		f=1MHz
		Max		0.8 pF		

Outline Dimensions



Reference Data

