

PHOTOVOLTAIC MOSFET DRIVER

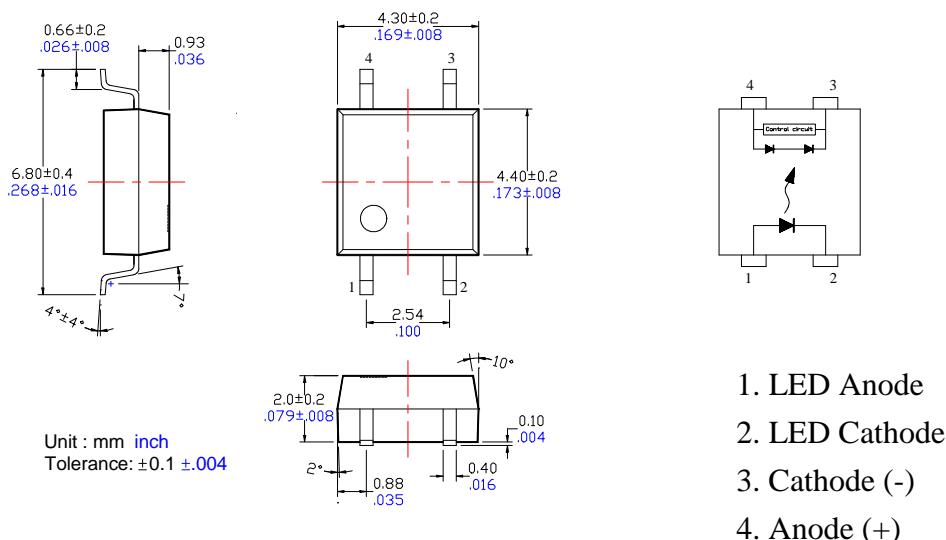
Features

- SOP package 4 Pin type in miniature design ($4.4 \times 4.3 \times 2.0\text{mm}$ / $.173 \times .169 \times .083\text{inch}$)
- High-speed switching
- 2500Vrms Input/Output isolation
- Tape & Reel version available

Applications

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

Outline Dimensions



PHOTOVOLTAIC MOSFET DRIVER
Part Name: LTP-2G2

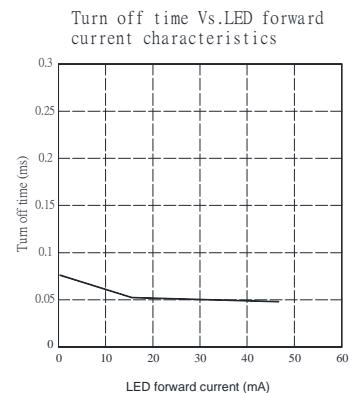
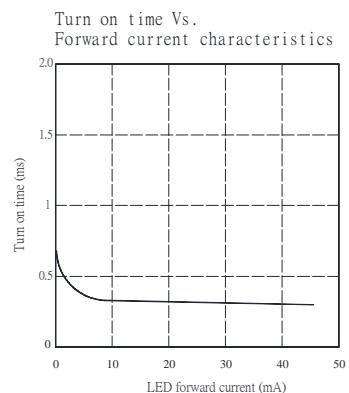
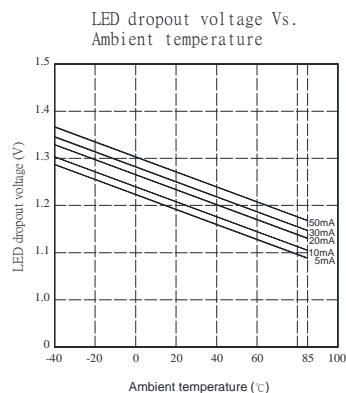
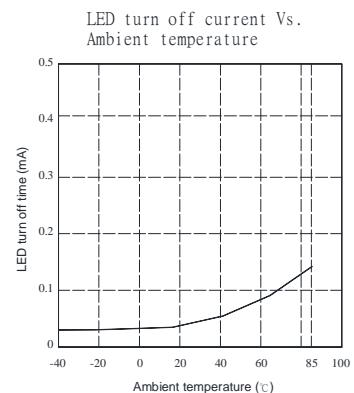
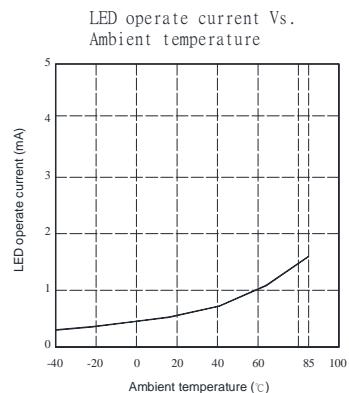
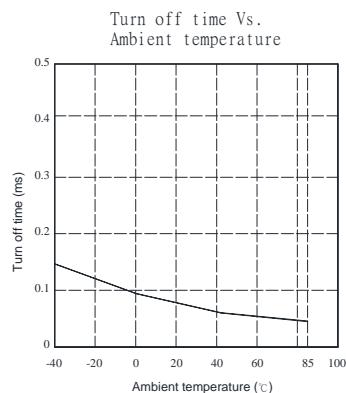
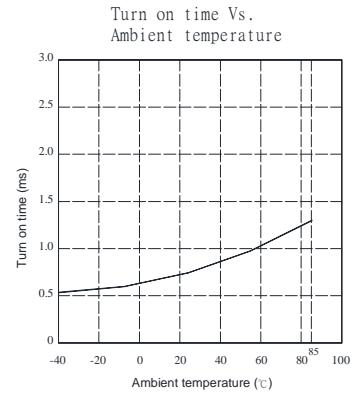
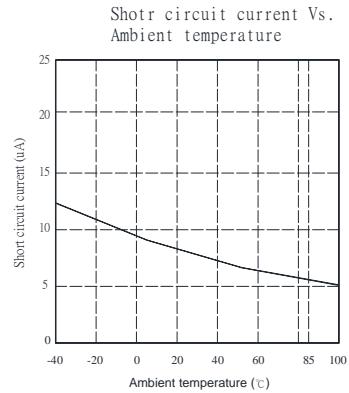
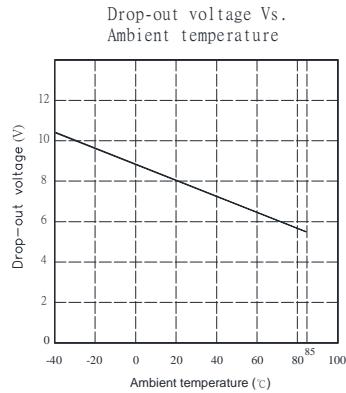
Absolute Maximum Ratings (Ambient Temperature: 25°C)

Item		Symbol	Value	Units	Note
Input	Continuous LED Current	I _F	50	mA	
	Peak LED Current	I _{FP}	1000	mA	f=100Hz, duty=1%
	LED Reverse Voltage	V _R	5	V	
	Input Power Dissipation	P _{In}	75	mW	
I/O Breakdown Voltage		V _{I/O}	2500	Vrm	RH=60%, 1min
Operating Temperature		T _{opr}	-40 to +85	°C	
Storage Temperature		T _{Stg}	-40 to +100	°C	

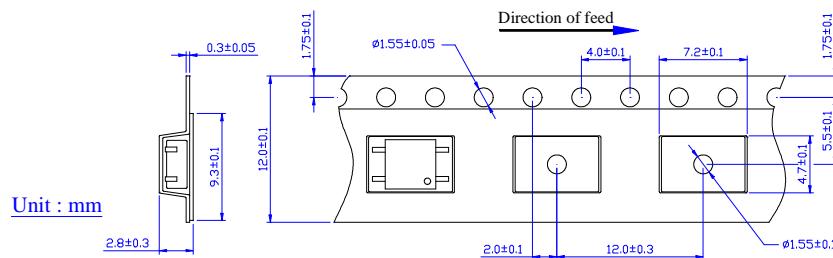
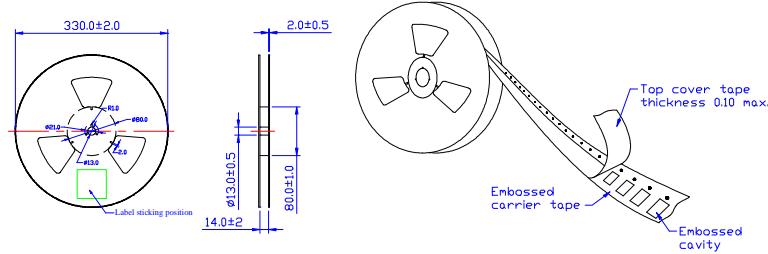
Electrical Specifications (Ambient Temperature: 25°C)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V _F		1.3	1.6	V	I _F =10mA
	Operation LED Current	I _{F On}		0.5	3.0	mA	V _{oc} =5V
	Recovery LED Current	I _{F Off}		0.35	0.5	mA	V _{oc} =1V
Output	Drop-out Voltage	V _{oc}	6	8		V	I _F =10mA
	Short Circuit Current	I _{sc}	12			uA	I _F =10mA
Transmission	Turn-On Time	T _{On}		0.02		ms	I _F =10mA CL=250pF
	Turn-Off Time	T _{off}		0.02		ms	
Coupled	I/O Isolation Resistance	R _{I/O}	10 ¹⁰			Ω	DC500V
	I/O Capacitance	C _{I/O}		0.8	1.5	pF	f=1MHz

Reference Data

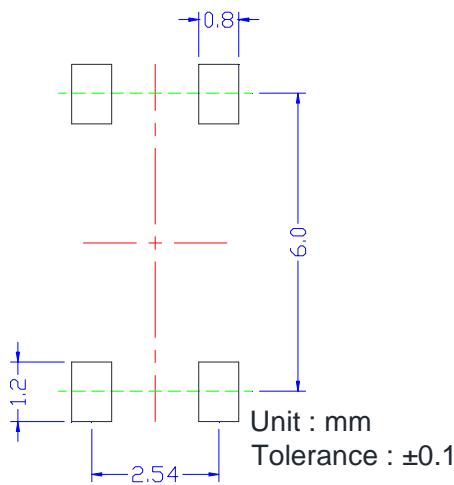


Taping Specifications for Surface Mount Devices



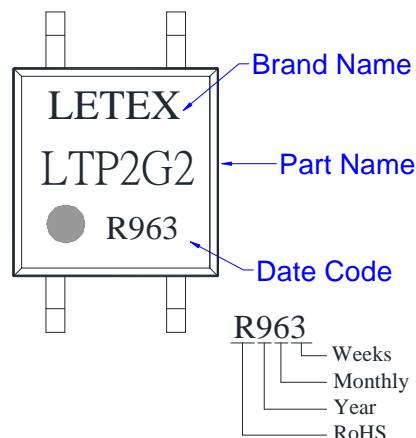
Recommended Mounting Pad

(Top view)



Marking

(Each photo MOS Relay shall be marked with the following information)



- Note:
1. There shall be leader of 230 mm minimum which may consist of carrier and or cover tape follower by a minimum of 160 mm of carrier tape sealed with cover tape.
 2. There shall be a minimum of 160 mm of empty component pockets sealed with cover tape.
 3. Devices are pockets in accordance with EIA standard EIA-481-A and specifications given above.
 4. Packaging: 2,000pcs per reel, 2 reel per box, 5 boxes per carton.