

PHOTOVOLTAIC MOSFET DRIVER

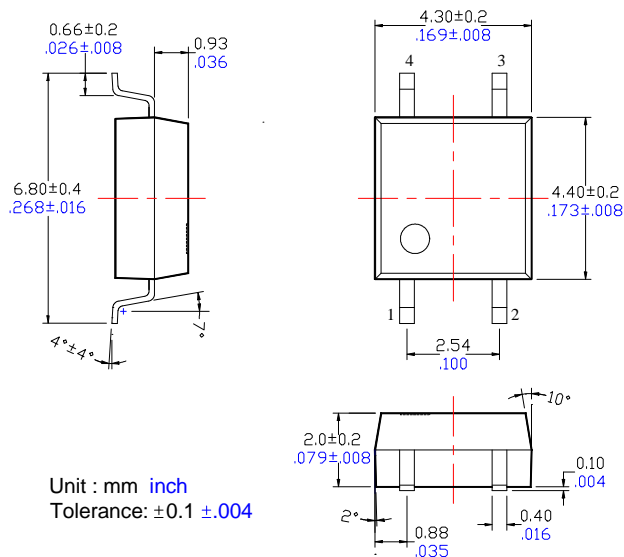
Features

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

Applications

- MOS FET and IGBT driver
- Power supply (V_{cc}) for electronic circuits

Outline Dimensions



1. LED Anode
2. LED Cathode
3. Cathode (-)
4. Anode (+)

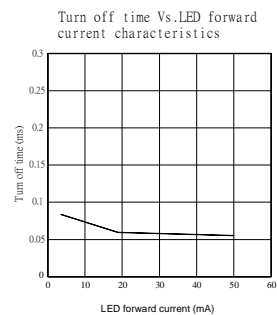
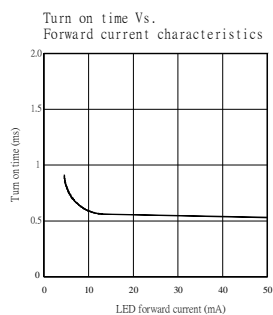
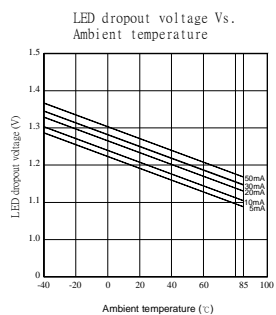
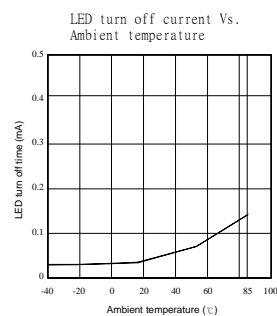
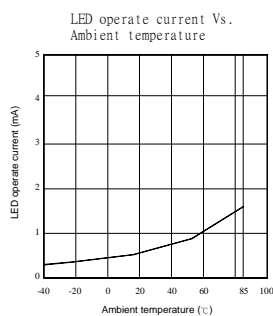
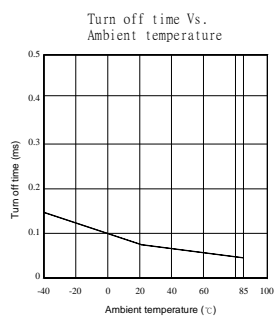
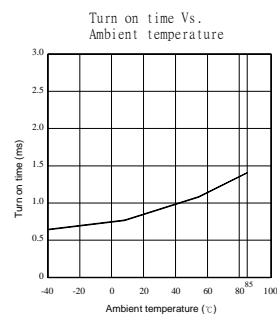
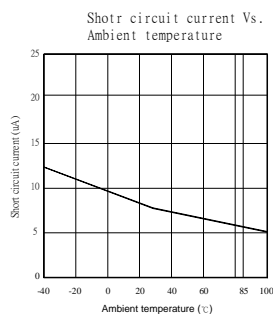
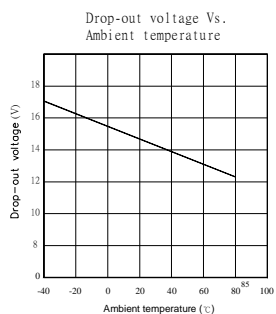
PHOTOVOLTAIC MOSFET DRIVER**Part Name: LTP-2G5****Absolute Maximum Ratings (Ambient Temperature: 25°C)**

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	V _{rm}	RH=60%, 1min
Operating Temperature		T _{Opr}	-40 to +85	°C	
Storage Temperature		T _{Stg}	-40 to +100	°C	

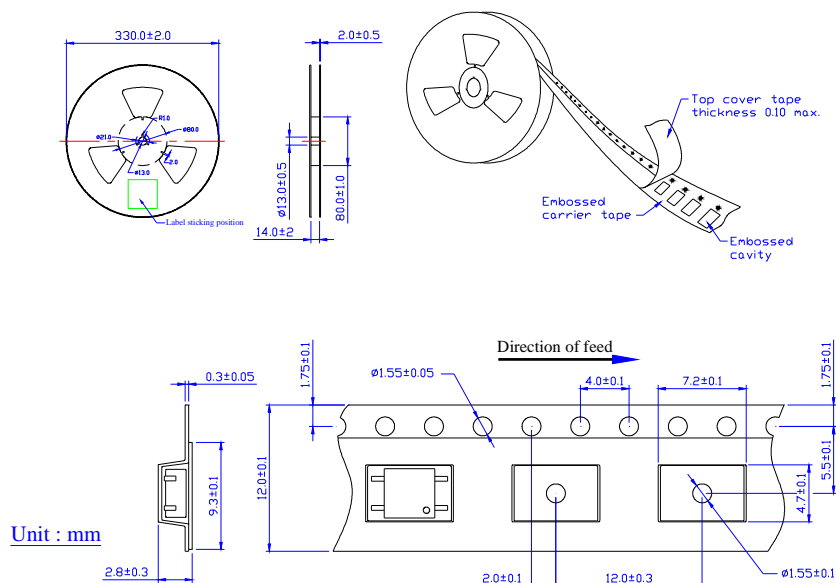
Electrical Specifications (Ambient Temperature: 25°C)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V _F		1.2	1.4	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}	10	16		V	I _F =10mA
	Short Circuit Current	I _{sc}	3	8		uA	I _F =10mA
Transmis sion	Turn-On Time	T _{On}		0.28		ms	I _F =10mA
	Turn-Off Time	T _{Off}		0.05		ms	C _L =1000pF
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

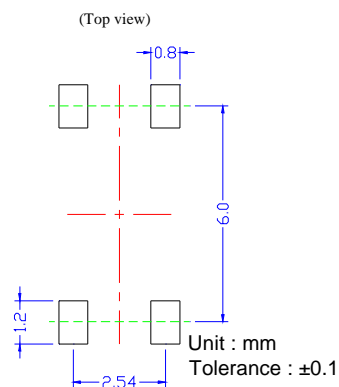
Reference Data



Taping Specifications for Surface Mount Devices

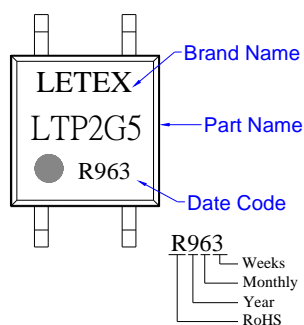


Recommended Mounting Pad



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.