

TB3063S

Features

- Compact SOP package
- 600V peak blocking voltage
- Isolation voltage between input and output (Viso : 3750Vrms)
- Simplifies logic control of 115/240 VAC power
- Zero voltage crossing



Applications

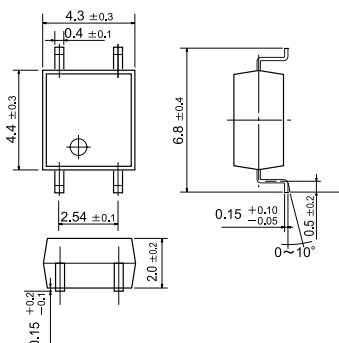
- Solenoid/valve controls
- Lighting controls
- Static power switches
- AC motor drives
- Temperature controls
- AC motor starters
- Solid state relays
- Programmable controllers

Part Identifications

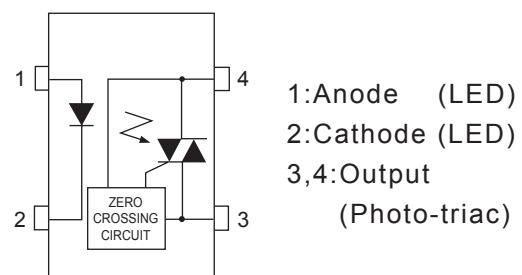
SOP Type SOP		Quantity
Tube	Tape & Reel	
	Feed Direction:Pin No.3,4	Feed Direction:Pin No.1,2
TB 3063S	TB3063S - R1	TB3063S - R2
		Tube 100 pcs Tape 1000 pcs

Dimensions (Unit : mm) & Terminal Identification

TB3063S dimensions



Terminal Identification



為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。

In the interest of continuous development, our companies reserve the right to alter designs within specification range.

Absolute Maximum Ratings (Ambient Temperature : 25°C)

Item		Symbol	Value
Input 輸入	Continuous LED Current	I _F	50mA
	Peak LED Current (f=100 Hz,Duty=1%)	I _{FP}	1A
	LED Reverse Voltage	V _R	6V
	Input Power Dissipation	P _{IN}	70mW
Output 輸出	Load Voltage	V _L	600V (peak)
	Load Current	I _L	100mA
	Peak Load Current (1ms,1 shot)	I _{PEAK}	1A
	Output Power Dissipation	P _{OUT}	300mW
Total Power Dissipation		P _T	330mW
I/O Breakdown Voltage		V _{I/O}	3750 Vrms
Operating Temperature		T _{OPR}	-40°C ~ +85°C
Storage Temperature		T _{STG}	-50°C ~ +120°C
Soldering Temperature 10 Second		T _{sol}	260°C

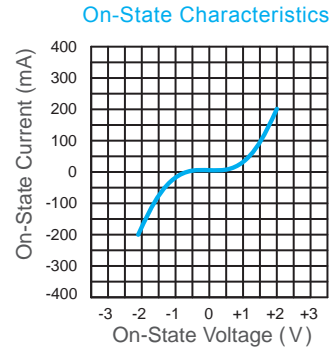
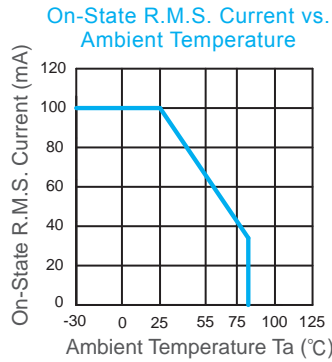
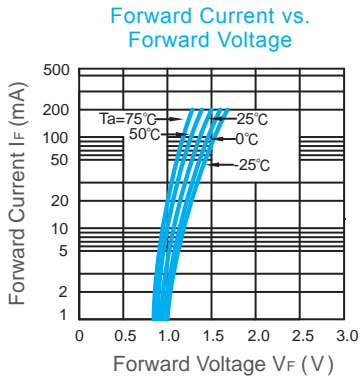
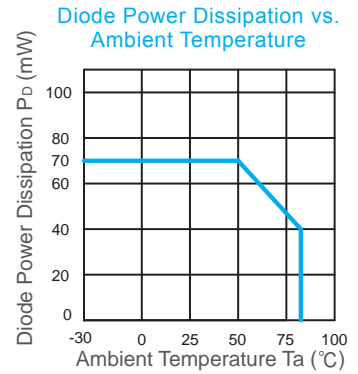
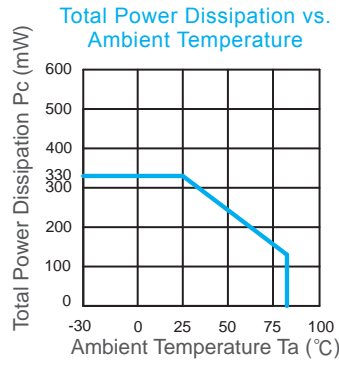
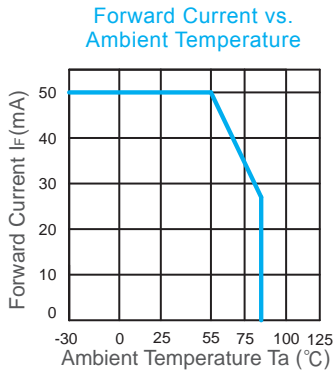
Electrical Specifications (Ambient Temperature : 25°C)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input	LED Forward Voltage	V _F		1.2	1.4	V	I _F =10mA
	Recovery Current	I _R			10	μA	V _R =5V
Output	Peak Blocking Current	I _{DRM}			500	nA	I _F =0mA, V _{DRM} =600V
	ON-State Voltage	V _{TM}		1.7	3	V	I _T =100mA
Transfer Characteristics	Holding Current	I _H		0.1		mA	
	Critical Rate Of Rise Of OFF-state Voltage	dv/dt	600			V/μs	V _{DRM} =(1/2)xRated
	Inhibit Voltage (MT1-MT2 Voltage Above Which Device Not Trigger)	V _{INH}		10	20	V	I _F =5mA
	Leakage In Inhibited State	I _{DRM2}			500	μA	I _F =Rated, I _{FT} =Rated, V _{DRM} =OFF-State
	Isolation Resistance	R _{ISO}	5x10 ¹⁰	10 ¹¹		Ω	DC500V
	Minimum Trigger Current	I _{FT}		1.5	5	mA	

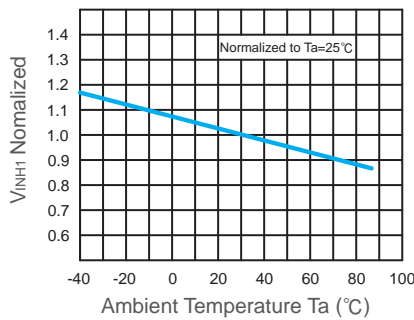
為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。

In the interest of continuous development, our companies reserve the right to alter designs within specification range.

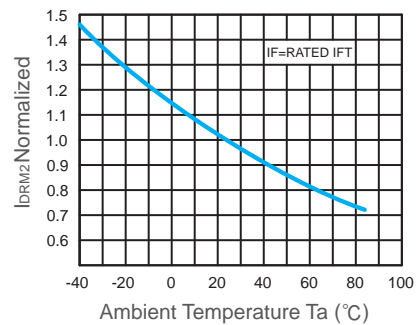
Photo Coupler



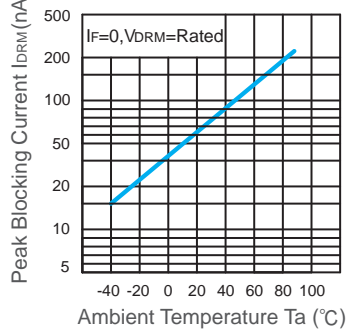
Inhibit Voltage vs. Temperature



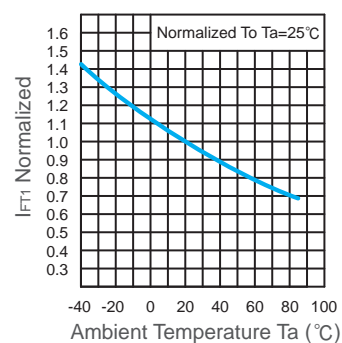
I_{DRM2} , Leakage In Inhibit State vs. Temperature



Leakage with LED off vs. Ambient Temperature




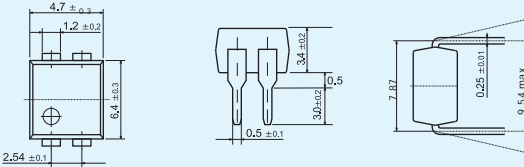
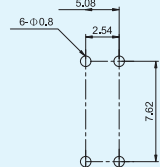

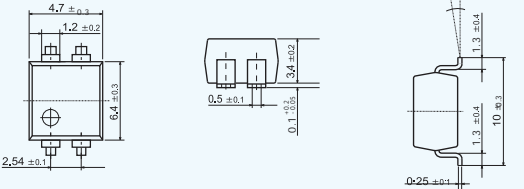
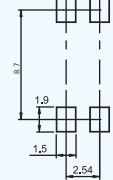

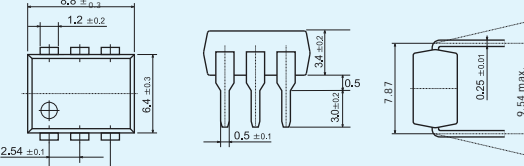
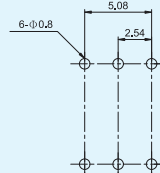

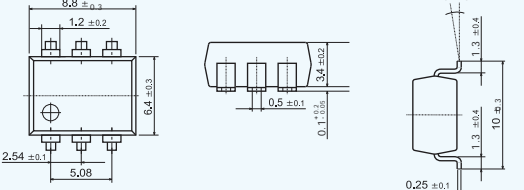
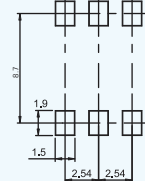

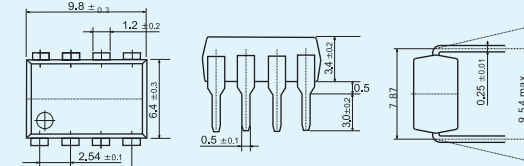
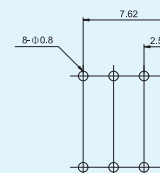

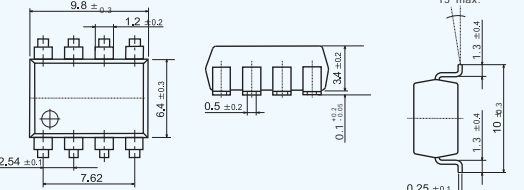
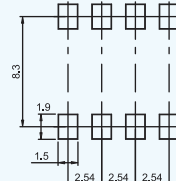
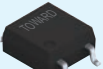
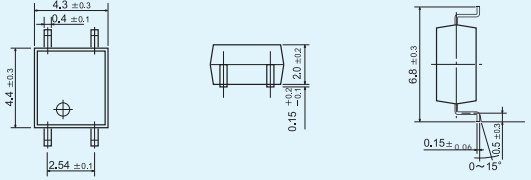
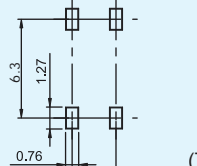

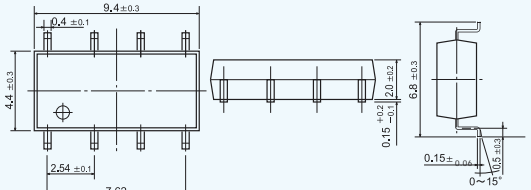
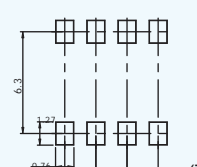
Trigger Current vs. Ambient Temperature



為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。

In the interest of continuous development, our companies reserve the right to alter designs within specification range.

Package & PC Board Pattern

Package 包裝	Dimensions 外型尺寸圖	PC Board pattern PC 板加工圖
 <p>DIP4</p>		 <p>(Bottom View)</p>
 <p>SMD4</p>		 <p>(Top View)</p>
 <p>DIP6</p>		 <p>(Bottom View)</p>
 <p>SMD6</p>		 <p>(Top View)</p>
 <p>DIP8</p>		 <p>(Bottom View)</p>
 <p>SMD8</p>		 <p>(Top View)</p>
 <p>SOP4</p>		 <p>(Top View)</p>
 <p>SOP8</p>		 <p>(Top View)</p>

為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。
In the interest of continuous development, our companies reserve the right to alter designs within specification range.

Packing Specifications

Package Type 包裝類型	Tape shape & dimensions 形狀和尺寸	Reel shape & dimensions 圈帶形狀和尺寸	Quantity 數量
4 Pin SOP			1000 pcs
8 Pin SOP			1000 pcs
4 Pin SMD			1000 pcs
6 Pin SMD			1000 pcs
8 Pin SMD			1000 pcs

為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。

In the interest of continuous development, our companies reserve the right to alter designs within specification range.

Load Connecting Method

Type 類型	Load 負荷	Connection 接續方法	Feature 特長
4 pin	AC or DC		Control bi-directional signal 可控制雙向信號
6 pin	A	AC or DC	Control bi-directional signal 可控制雙向信號
	B	DC	On-Resistance is 1/2 of A-connection 導通電阻值是 A 接法的 1/2 2-Make-contacts (Source Common)
8 pin	AC or DC		2 input and 2 output 2 入力和 2 出力回路
			1 input and 2 output 1 入力和 2 出力回路

為了持續的改進，敝司有權在不影響規格範圍的情況下修改設計。

In the interest of continuous development, our companies reserve the right to alter designs within specification range.