

Hi-A Grade $\geq 1A$

CC36 Series 1.2A·1a

Hi-Temp (105°C)

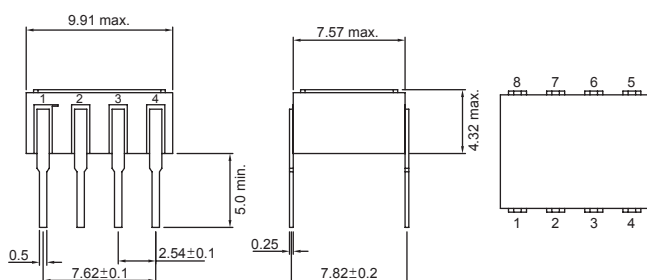


Features

- Ceramic Sealed Package
- AC/DC Signal & Power Switching
- Compact Solid-State Bidirectional Switch
- Hermetically Sealed 8-Pin Dual In-Line Package
- Small Size And Weight
- Performance Guaranteed Over-55°C to 105°C
- High Transient Immunity

Application

- Military and Space
- Standard 28 Vdc and 24 Vdc Load Driver
- Aircraft Controls
- AC/DC Electromechanical and Solid State Relay Replacement
- Harsh Industrial Environments

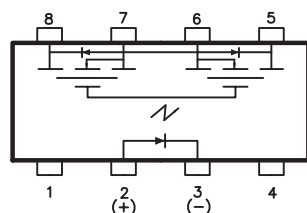


PART NO	PACKAGE	PACKING
CC36	DIP-8	Tube 45pcs

* Package & PCB Layout Design, See Page 134

Terminal Identification

CC36



- 2:Anode (LED)
- 3:Cathode (LED)
- 1,4:NC
- 5,8:Drain (MOS FET)
- 6,7:Source (MOS FET)

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。

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BRIGHT TOWARD INDUSTRIAL CO.,LTD.

CC36 Series. REV.06/2017

Hi-A Grade $\geq 1A$

Absolute Maximum Ratings 絕對最大定格 (Ambient Temperature 周圍溫度 : 25°C)

Item		Symbol	Value	
Input 輸入	Continuous LED Current 連續 LED 電流	I_F	40mA	
	Peak LED Current LED 峰值電流 (f=100 Hz,Duty=1%)	I_{FP}	100mA	
	LED Reverse Voltage 逆向 LED 電壓	V_R	5V	
	Input Power Dissipation 輸入損耗	P_{IN}	60mW	
output 輸出	Load Voltage 負荷電壓	V_L	60V (AC peak or DC)	
	Load Current 負荷電流 (mA)	I_L	A	1.2A(AC or DC)
			B	1.7A(DC)
			C	2.4A(DC)
	Peak Load Current 峰值負荷電流 (1ms,1 shot)	(A)	I_{PEAK}	5
Output Power Dissipation 輸出損耗	(mW)	P_{OUT}	750	
Total Power Dissipation 全損耗		(mW)	P_T	800
I/O Breakdown Voltage 入 / 出力間絕緣電壓		(Vrms)	V_{IO}	1000
Operating Temperature 使用時溫度		T_{OPR}	-55°C ~ +105°C	
Storage Temperature 保存溫度		T_{STG}	-55°C ~ +125°C	

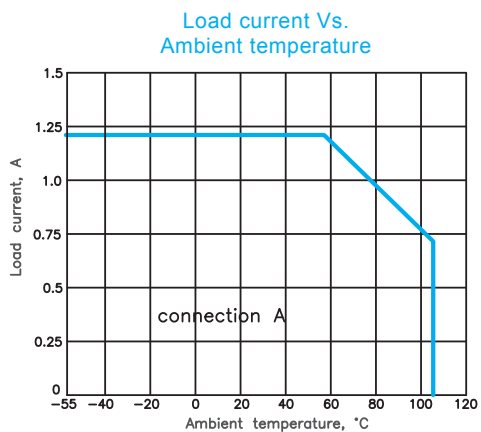
Electrical Specifications 電性規格 (Ambient Temperature 周圍溫度 : 25°C)

Item		Symbol	MIN.	TYP.	MAX.	Units	Conditions
Input 輸入	LED Forward Voltage LED 順向電壓	V_F	2.3	2.7	3.1	V	$I_F=10mA$
	Operation LED Current LED 動作電流	$I_{F ON}$		2.0	5.0	mA	
	Recovery LED Voltage LED 復位電壓	$V_{F OFF}$	1.0	2.5		V	
Output 輸出	On-Resistance 導通電阻 Drain to Drain	R_{ON}		0.1	0.14	Ω	$I_F=10mA, I_L=Rating$ Time to flow is within 1sec.
	Off-State Leakage Current 開路狀態漏電流	I_{LEAK}			1.0	μA	$I_F=0mA, V_L=60V$
	Output Capacitance 輸出端容量	C_{OUT}		470		pF	$V_L=0V, f=1MHz$
Transmission 傳達	Turn-On Time 動作時間	T_{ON}		2.0	5.0	ms	$I_F=10mA, I_L=Rating$
	Turn-Off Time 復位時間	T_{OFF}		0.05	0.5	ms	
Coupled 結合	I/O Insulation Resistance 輸入 / 出間絕緣阻抗	R_{IO}	10^9			Ω	
	I/O Capacitance 輸入 / 力端靜電容量	C_{IO}		1		pF	$f=1MHz$

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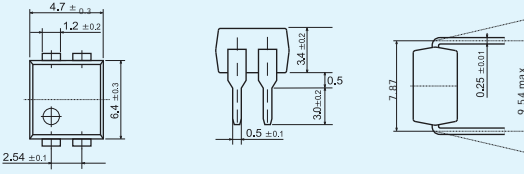
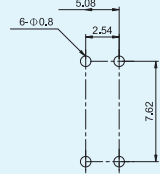

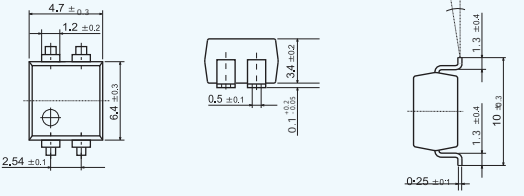
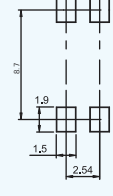

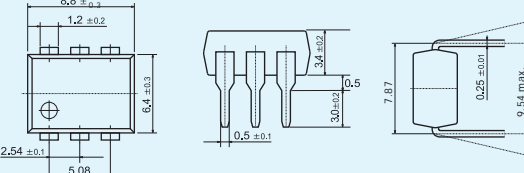
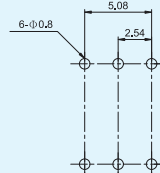

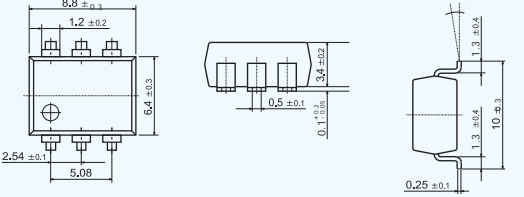
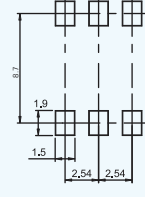

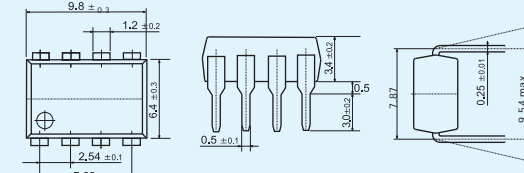
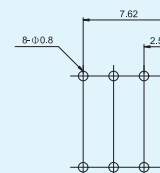

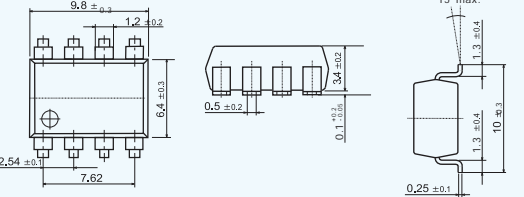
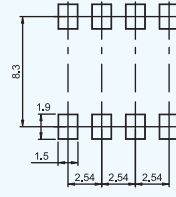
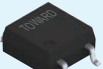
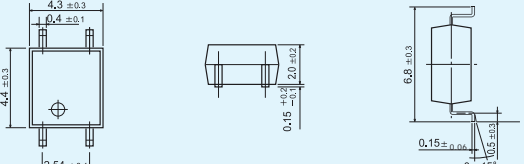
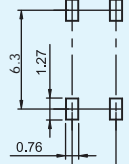

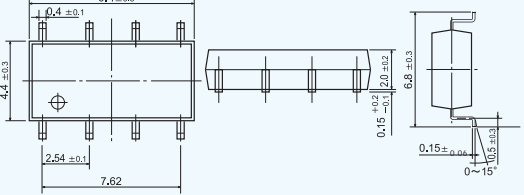
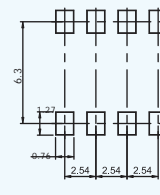
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Package & PC Board Pattern

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>

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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

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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)
C	DC	On-Resistance is 1/2 of B-connection 導通電阻值是 B 接法的 1/2	
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

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