

40-5 Series 1500V·1a

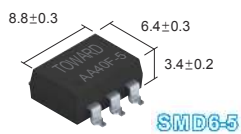
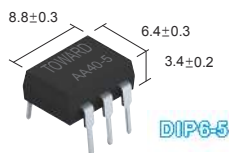


Features

- Contact Form 1a
- Load Voltage 1500V
- Operation LED Current 5.0mA
- Load Current 45mA
- On-Resistance 180Ω
- Output Capacitance 83pF
- Low Off-State Leakage Current 10μA

Application

- Modem
- Telephone Equipment
- Security Equipment
- Sensing Equipment
- Automatic Test Equipment
- I/O Modules
- Electric Vehicle

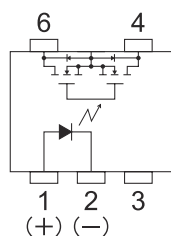


PART NO	PACKAGE	PACKING
AA40-5	DIP6-5	Tube 50pcs
AA40F-5	SMD6-5	Tube 50pcs
AA40F-5-R1	SMD6-5	Reel 1000pcs

* Package & PCB Layout Design, See Page 134

Terminal Identification

AA40(F)-5



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

為了持續的改進，敝公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 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	50mA
	Peak LED Current LED 峰值電流 (f=100 Hz,Duty=1%)	I _{FP}	500mA
	LED Reverse Voltage 逆向 LED 電壓	V _R	5V
	Input Power Dissipation 輸入損耗	P _{IN}	75mW
output 輸出	Load Voltage 負荷電壓	V _L	1500V (AC peak or DC)
	Load Current 負荷電流 (mA)	I _L	45
	Peak Load Current 峰值負荷電流 (1ms, 1 shot) (mA)	I _{PEAK}	180
	Output Power Dissipation 輸出損耗 (mW)	P _{OUT}	450
Total Power Dissipation 全損耗 (mW)		P _T	500
I/O Breakdown Voltage 入 / 出力間絕緣電壓 (V _{rms})		V _{I/O}	3750
I/O Breakdown Voltage 入 / 出力間絕緣電壓 (Suffix-H) (V _{rms})		V _{I/O}	5000
Operating Temperature 使用時溫度		T _{OPR}	-40°C ~ +85°C
Storage Temperature 保存溫度		T _{STG}	-40°C ~ +100°C

Recommended Operating Condition 建議使用條件 (Ambient Temperature 周圍溫度 : 25°C)

Item	Symbol	Number of used channels	MIN.	TYP.	MAX.	Units
Continuous LED Current 連續的 LED 電流	I _F		8	10	20	mA
Load Voltage 負荷電壓	V _L		---	---	600	V
Load Current 負荷電壓	I _L		---	---	10	mA

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	1.0	1.17	1.5	V	I _F =10mA
	Operation LED Current LED 動作電流	I _{F ON}		0.8	5.0	mA	
	Recovery LED Voltage LED 復位電壓	V _{F OFF}	0.5	1.0		V	
Output 輸出	On-Resistance 導通電阻 Drain to Drain	R _{ON}		110	200	Ω	I _F =10mA, I _L =Rating (within 1sec.)
		R _{ON}		180	300	Ω	I _F =10mA, I _L <5mA
	Off-State Leakage Current 開路狀態漏電流	I _{LEAK}			10	μA	I _F =0mA, V _L =1500V
	Output Capacitance 輸出端容量	C _{OUT}		83		pF	V _L =0V, f=1MHz
Transmission 傳達	Turn-On Time 動作時間	T _{ON}		0.2	1.0	ms	I _F =10mA, I _L =Rating
	Turn-Off Time 復位時間	T _{OFF}		0.04	0.5	ms	
Coupled 結合	I/O Insulation Resistance 輸入 / 出間絕緣阻抗	R _{I/O}	10 ¹⁰			Ω	
	I/O Capacitance 輸入 / 力端靜電容量	C _{I/O}		1.3		pF	f=1MHz

Note*1 :

- * The off-state leakage current value is for 25 degree C.
- * In case a continual DC bias is applied between outputs , the output MOSFET may deteriorate due to the voltage. Please verify operation of the actual design before using, or contact your local sales representative.

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BRIGHT TOWARD INDUSTRIAL CO.,LTD.

40-5 Series. REV.12/2018

PhotomOS-FET Relays
General-Purpose

PhotomOS-FET Relays
Hi-A Grade ≥ 1A

PhotomOS-FET Relays
Hi-V Grade ≥ 600V

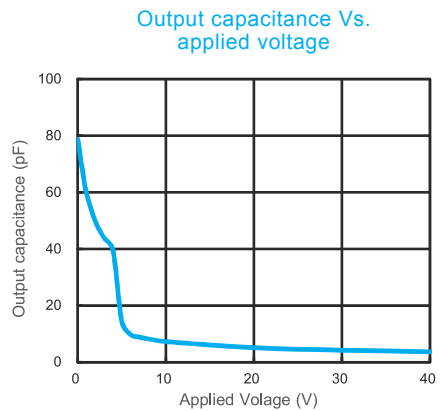
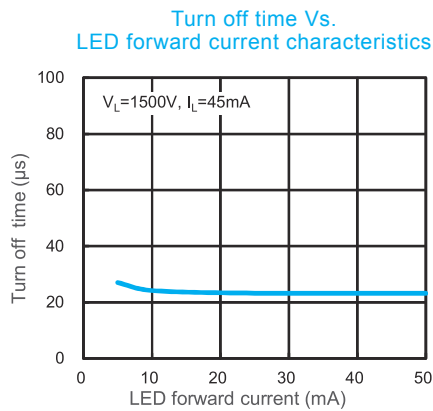
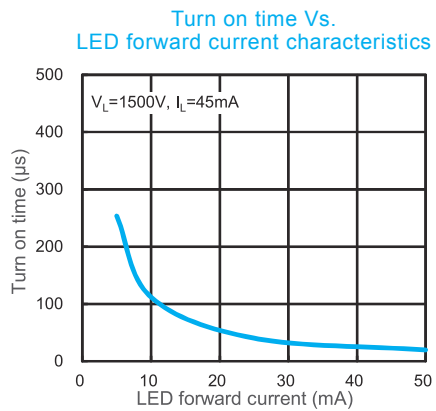
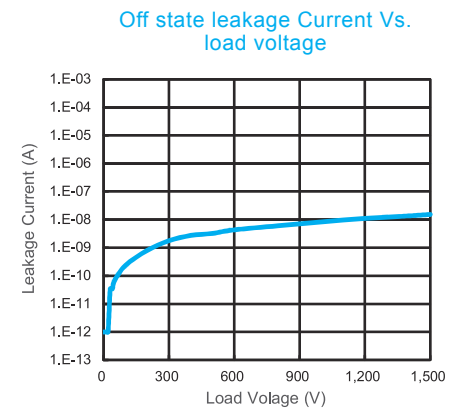
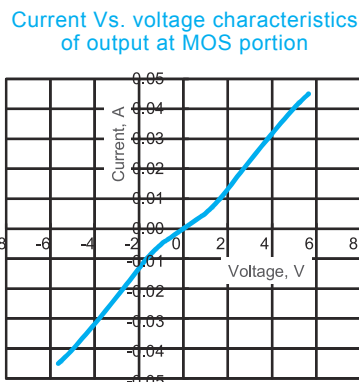
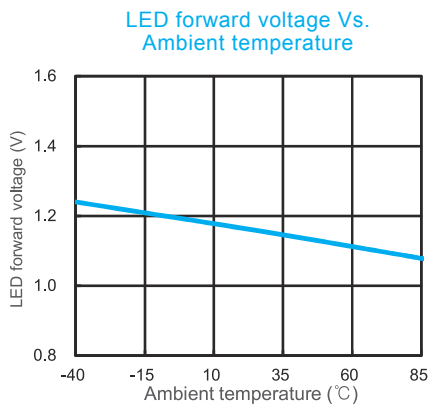
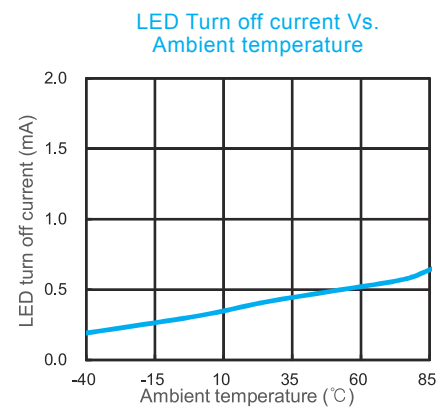
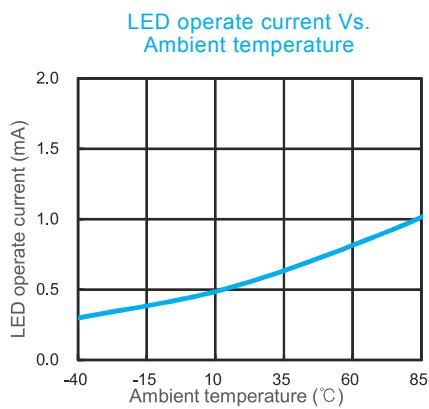
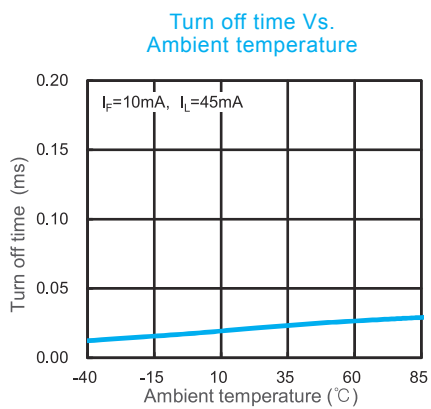
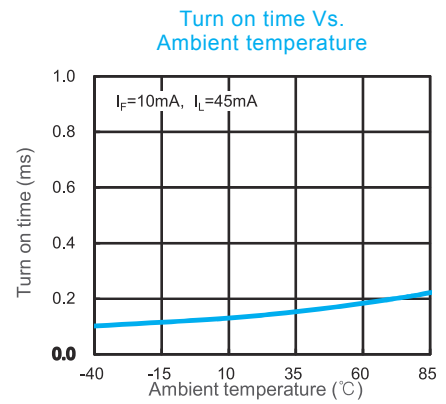
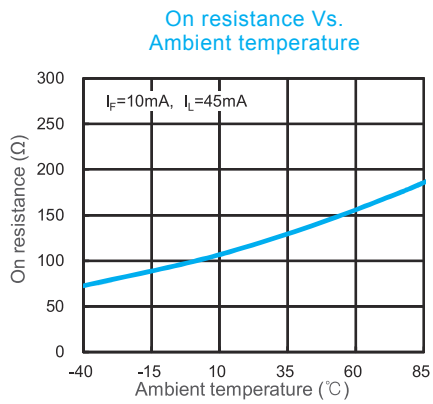
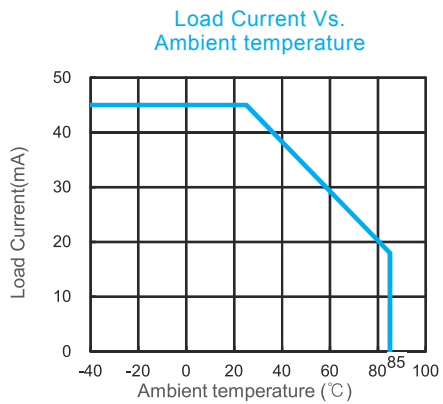
PhotomOS-FET Relays
Low Leakage Current

PhotomOS-FET Relays
RF

PhotomOS-FET Relays
Photo Coupler

PhotomOS-FET Relays
Mos Driver

PhotomOS-FET Relays
Solid State Relays



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