







Part Number: 36 Series

High Current - 1 Form A - PhotoDMOS Relays

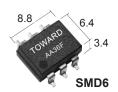
**Product Data Sheet** 





## **PICTURE**





Drawings not to scale. All dimensions in mm nominal. Pitch: 2.54 mm

#### **✓ RoHS** Compliant

#### **ORDERING INFORMATION**

Body Style	Series	Options
AA = DIP(6 pin)	36	F = SMD R1 = Tape & Reel (SMD Only) H = 5KV I/O BV

Part Number Example: AA36X-XX

AA36F-R1 = Series 36, 6-Pin DIP, SMD style with tape and

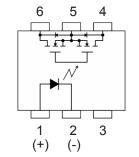
reel packaging

## **FEATURES**

- TOWARD PhotoDMOS Relays
- 60 Volt, 2.5 Amp Hi-Current design
- On-Resistance: 0.07 Ω (typical)
- I/O Breakdown Voltage 3750 Vrms Min.
- Optional High I/O BV 5000 Vrms Min.
- Max LED Current 3.0 mA
- Low Off-State Leakage Current 1.0 μ A Max

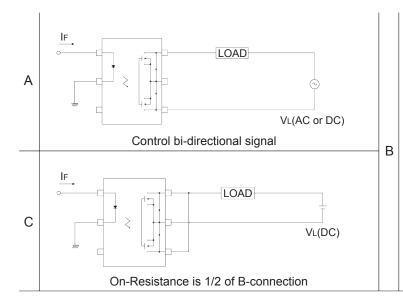
## **SCHEMATIC**

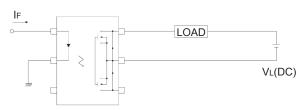
#### AA36(F)



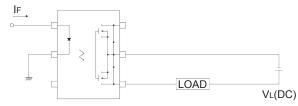
- 1: Anode (LED) 2: Cathode (LED)
- 3: NC
- 4. 6: Drain (MOS FET)
- 5: Source (MOS FET)

# **CONNECTION DIAGRAM**





On-Resistance is 1/2 of A-connection



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ABSOLUTE MAXIMUM RATINGS (Ambient Temperature: 25°C)							
ITEM		SYMBOL	VALUE				
Input	Continuos LED Current	lf	50 mA				
	Peak LED Current (f=100 Hz, duty=1%)	<b>I</b> FP	500 mA				
	LED Reverse Voltage	VR	5 V				
	Input Power Dissipation	PIn	75 mW				
Output	Load Voltage	VL	60 V (AC peak or DC)				
		lι	A 2.5 A (AC or DC)				
	Load Current (A)		B 3.5 A (DC)				
			C 5.0 A (DC)				
	Peak Load Current (1 ms, 1 shot) (A)	<b>I</b> Peak	6.0 A				
	Output Power Dissipation (mW)	Pout	500 mW				
Total Power Dissipation (mW)		Рт	550 mW				
I/O Breakdown Voltage		V <sub>I/O</sub>	3750 Vrms				
Operating Temperature		Topr	-40°C to +85°C				
Storage Temperature		Tstg	-40°C to +100°C				

ELECTRICAL SPECIFICATIONS LED (Ambient Temperature: 25°C)								
ITEM		SYMBOL	MIN	TYP	MAX	UNITS	CONDITIONS	
Input	LED Forward Voltage	VF	1.0		1.5	V	I <sub>F</sub> = 10mA	
	Operation LED Current	<b>I</b> F On		1.5	3.0	mA		
	Recovery LED Voltage	VF Off	0.5	1.0		V		
Output	On-Resistance Drain to Drain	Ron		0.07	0.14	Ω	I <sub>F</sub> = 10mA I <sub>L</sub> = Rating Time to flow is within 1 sec.	
	Off-State Leakage Current	Leak			1.0	μΑ	IF = 0mA, VL = 50V	
	Output Capacitance	Cout		470		pF	VL=0V, f=1MHz	
Transmission	Turn-On Time	Ton		0.6	3.0	ms	- I <sub>F</sub> = 10mA, I <sub>L</sub> = Rating	
	Turn-Off Time	Toff		0.04	0.5	ms	- IF - TOTIA, IL - Rating	
Coupled	I/O Insulation Resistance	Rı/o	5*10 <sup>9</sup>			Ω		
	I/O Capacitance	Cı/o		1.0		pF	f = 1MHz	

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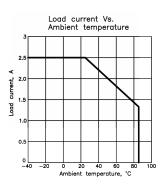
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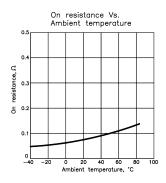
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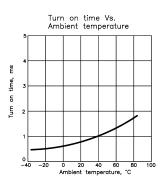


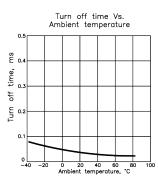


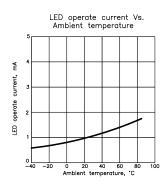
#### **GRAPHS**

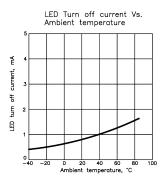


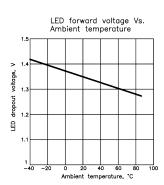


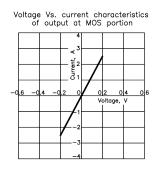


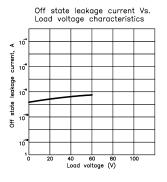


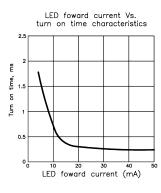


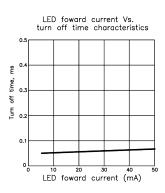


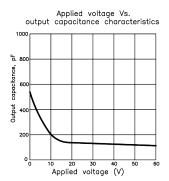












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