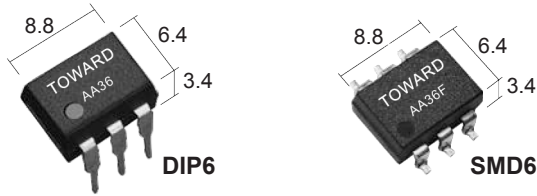


Part Number: 36 Series
High Current - 1 Form A - PhotoDMOS Relays
Product Data Sheet

60 VOLTS

High Current up to 2.5A

PICTURE



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

RoHS Compliant

ORDERING INFORMATION

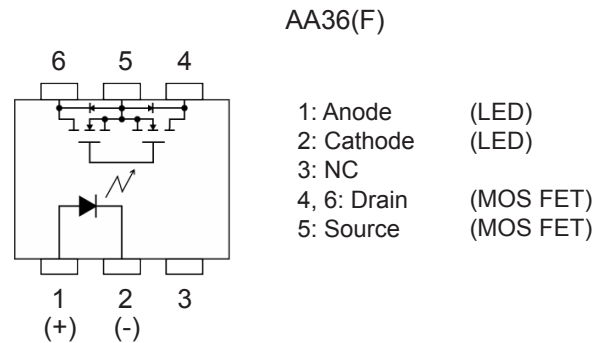
Body Style	Series	Options
AA = DIP(6 pin)	36	F = SMD R1 = Tape & Reel (SMD Only) H = 5KV I/O BV

Part Number Example: AA36X-XX
 AA36F-R1 = Series 36, 6-Pin DIP, SMD style with tape and reel packaging

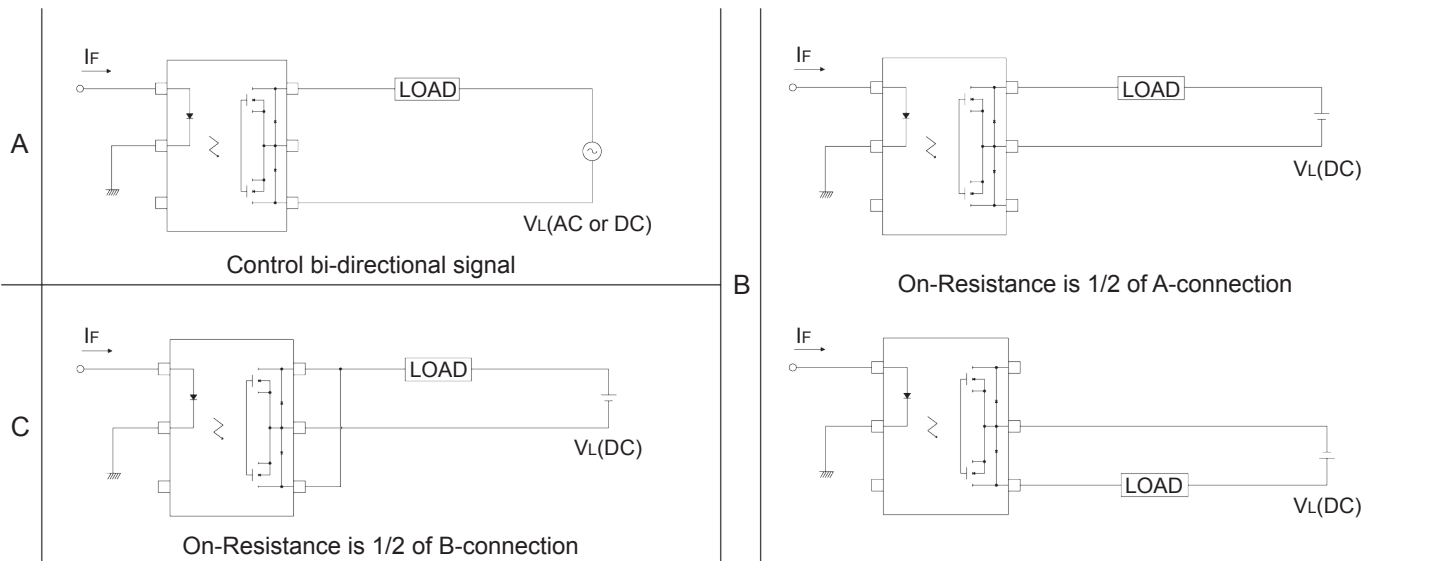
FEATURES

- **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



CONNECTION DIAGRAM



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ABSOLUTE MAXIMUM RATINGS (Ambient Temperature: 25°C)

ITEM		SYMBOL	VALUE	
Input	Continuous LED Current	I _F	50 mA	
	Peak LED Current (f=100 Hz, duty=1%)	I _{FP}	500 mA	
	LED Reverse Voltage	V _R	5 V	
	Input Power Dissipation	P _{In}	75 mW	
Output	Load Voltage	V _L	60 V (AC peak or DC)	
	Load Current (A)	I _L	A	2.5 A (AC or DC)
			B	3.5 A (DC)
			C	5.0 A (DC)
	Peak Load Current (1 ms, 1 shot) (A)	I _{Peak}	6.0 A	
Output Power Dissipation (mW)	P _{Out}	500 mW		
Total Power Dissipation (mW)		P _T	550 mW	
I/O Breakdown Voltage		V _{I/O}	3750 Vrms	
Operating Temperature		T _{Opr}	-40°C to +85°C	
Storage Temperature		T _{Stg}	-40°C to +100°C	

ELECTRICAL SPECIFICATIONS LED (Ambient Temperature: 25°C)

ITEM		SYMBOL	MIN	TYP	MAX	UNITS	CONDITIONS
Input	LED Forward Voltage	V _F	1.0		1.5	V	I _F = 10mA
	Operation LED Current	I _{F On}		1.5	3.0	mA	
	Recovery LED Voltage	V _{F Off}	0.5	1.0		V	
Output	On-Resistance Drain to Drain	R _{On}		0.07	0.14	Ω	I _F = 10mA I _L = Rating Time to flow is within 1 sec.
	Off-State Leakage Current	I _{Leak}			1.0	μA	I _F = 0mA, V _L = 50V
	Output Capacitance	C _{Out}		470		pF	V _L =0V, f=1MHz
Transmission	Turn-On Time	T _{On}		0.6	3.0	ms	I _F = 10mA, I _L = Rating
	Turn-Off Time	T _{Off}		0.04	0.5	ms	
Coupled	I/O Insulation Resistance	R _{I/O}	5*10 ⁹			Ω	
	I/O Capacitance	C _{I/O}		1.0		pF	f = 1MHz

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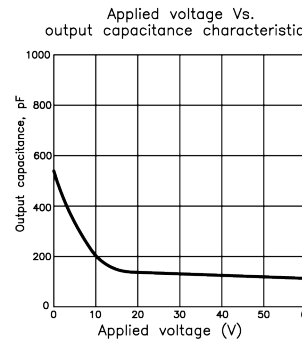
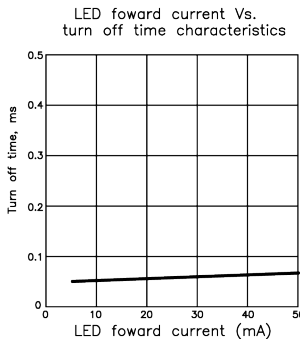
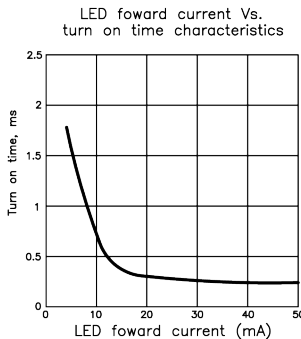
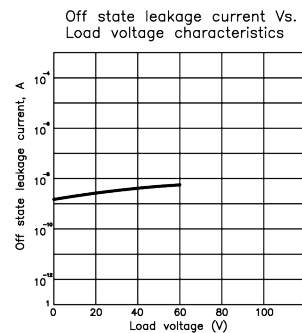
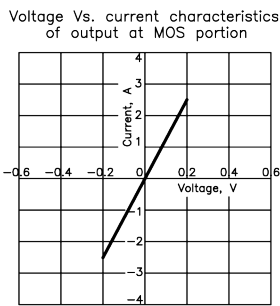
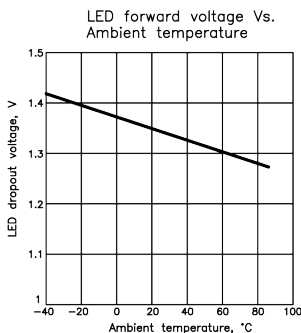
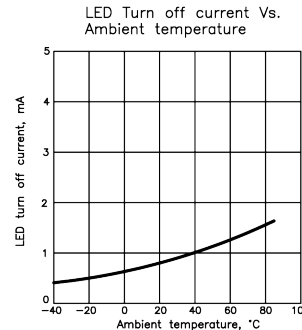
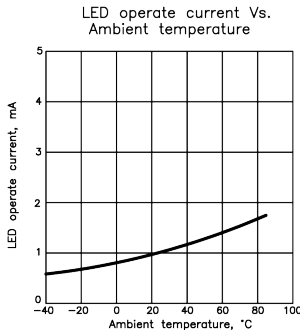
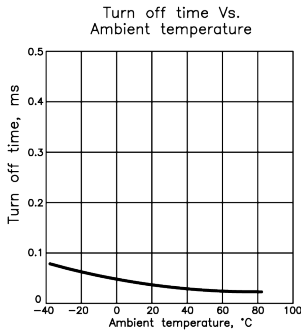
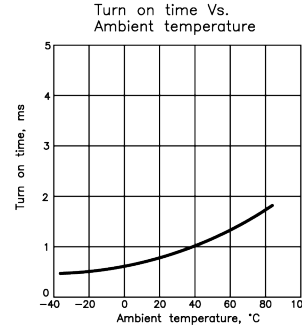
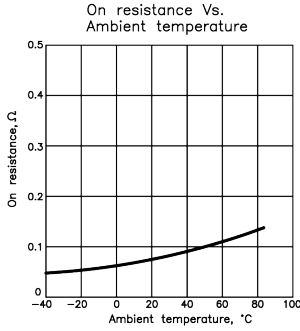
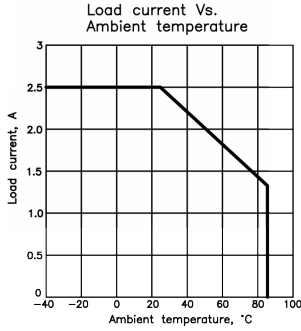
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GRAPHS



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