







Part Number: 47 Series

High Current - 1 Form A / 2 Form A - PhotoDMOS Relays

Product Data Sheet

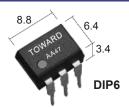


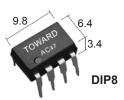


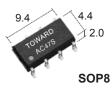
PICTURE



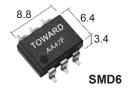














Drawings not to scale. All dimensions in mm nominal. Pitch: 2.54 mm

✓ RoHS Compliant

ORDERING INFORMATION

Body Style	Series	Options
AB = 4 pin AA = 6 pin AC = 8 pin	47	F = SMD S = SOP R1 = Tape & Reel (SMD / SOP Only) H = 5KV I/O BV (DIP / SMD Only) H = 3.75KV I/O BV (SOP)

Part Number Example: XX47X-XX

AB47S-R1 = Series 47, 1 Form A, 4 Pin, SOP with tape and

reel packaging

FEATURES

- TOWARD PhotoDMOS Relays
- 80 Volt, 2.0 Amp High Current design
- On-Resistance: 0.15 Ω (typical)
- I/O Breakdown Voltage: SOP 1500 Vrms Min.

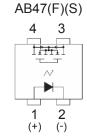
DIP / SMD 3750 Vrms Min.

Optional High I/O BV: SOP 3750 Vrms Min.

DIP / SMD 5000 Vrms Min.

- Max LED Current 3.0 mA
- Low Off-State Leakage Current 1.0 μ A Max
- UL File E344988 c Tus

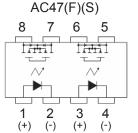
SCHEMATIC



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

1: Anode (LED) 2: Cathode 3: NC

(MOS FET) 4, 6: Drain (MOS FET) 5: Source



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

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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ABSOLUTE MAXIMUM RATINGS (Ambient Temperature: 25°C)									
ITEM SYMBOL				VALUE					
OUTLINE PACKAGE			SOP 4/8		DIP 4/8 SMD 4/8		DIP 6 SMD 6		
			1CH	2CH	1CH	2CH	1CH		
	Continuos LED Current	lF	50 mA						
Input	Peak LED Current (f=100 Hz, duty=1%)	IFP	500 mA						
Input	LED Reverse Voltage	VR	5 V						
	nput Power Dissipation P _{In} 75 mW								
	Load Voltage	VL	80 V (AC peak or DC)						
Output	Load Current (A)	IL	1.25	1.0	1.25	1.0	2.0		
Output	Peak Load Current (1 ms, 1 shot) (A)	l Peak	3.0	3.5	3.0	3.0	5.0		
	Output Power Dissipation (mW)	Pout	350	450	350	450	500		
Total Power Dissipation (mW)		Рт	400	500	400	500	550		
I/O Breakdown Voltage (Vrms)		VI/O	1500	1500	3750	3750	3750		
Operating Temperature		Topr	-40° +85°C						
Storage Temperature		Tstg	-40° +100°C						

ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)								
	SYMBOL	MIN	TYP	MAX	UNITS	CONDITIONS		
	LED Forward Voltage	VF	1.0	1.37	1.5	V	I _F = 10mA	
Input	Operation LED Current	IF On		1.2	3.0	mA		
	Recovery LED Voltage	VF Off	0.5	1.0		V		
Outroit	On-Resistance Drain to Drain	Ron		0.15 0.1(DIP6)	0.5 0.16(DIP6)	Ω	I _F = 5mA I _L = Rating Time to flow is within 1 sec.	
Output	Off-State Leakage Current	Leak			1.0	μA	VL=80V	
	Output Capacitance	Cout		190 500(DIP6)		pF	VL=0V, f=1MHz	
	Turn-On Time	Ton		0.7	3.0	ms	$I_F = 5mA$	
Transmission	Turn-Off Time	Toff		0.06	0.5	ms	I∟= Rating (for SOP/DIP4 - 8 type)	
Transmission	Turn-On Time	Ton		0.7	3.0	ms	I _F = 10mA	
	Turn-Off Time	Toff		0.04	0.5	ms	I∟= Rating (for DIP6 type)	
Coupled	I/O Insulation Resistance	Rı/o	10 ⁹			Ω		
	I/O Capacitance	Cı/o		1.3		pF	f = 1MHz	

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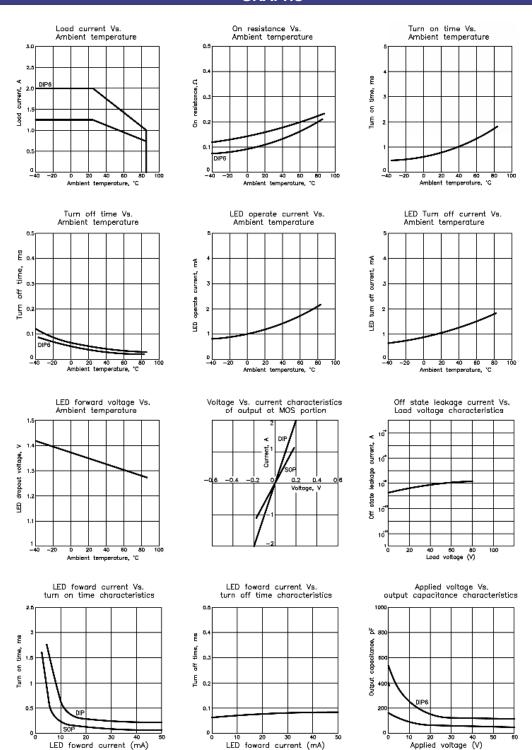
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GRAPHS



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