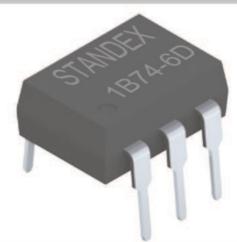




#### 74 Series Photo-MOSFET Relay

- Features: General Purpose Photo MOSFET Relay, switching up to 400V DC or Peak AC
- > THT, SMD or SOP, UL listed, RoHS Compliance
- Applications: Battery Management Systems, I/O Modules, **Test Equipment**
- Markets: Automotive, Telecommunication, Test & Measurement, Security



	X	1-XXX-	- X B / 4	SMI	Description:	Part
Special Features	Package Style	Mounting Type	Number of Pins	Series Number	Contact Form	Number of Poles
Nil	Tube, Reel	D, S, P	4, 6, 8	74	B	1, 2

		Max	imum Ratin	gs @ Ambie	nt Temperal	ture = 25°C		
Parameters	Symbol		9	Value			Units	Condition
		1B74-4P	2B74-8P	1B74-4D, S	2B74-8D, S	1B74-6D, S		
				INPUT SPECIF	FICATIONS			
Continuous LED Current	I <sub>F</sub>	50	50	50	50	50	mA	
Peak LED Current	I <sub>EP</sub>	500	500	500	500	500	mA	f=100Hz, 1% Duty Cycle
LED Reverse Voltage	V <sub>R</sub>	5	5	5	5	5	V	*
Input Power Dissipation	P <sub>IN</sub>	75	75	75	75	75	mW	8
			0	UTPUT SPEC	IFICATIONS			
Load Voltage	VL	400	400	400	400	400	DC or Peak AC	
Load Current	I <sub>L</sub>	70	60	90	80	90	mA	
Peak Load Current	IPEAK	400	400	400	400	400	mA	1 ms, 1 shot
Output Power Dissipation	Pout	300	450	450	600	450	mW	-
			G	ENERAL SPEC	IFICATIONS			
Total Power Dissipation	P <sub>T</sub>	350	500	500	650	500	mW	
I/O Breakdown Voltage	V <sub>1/0</sub>	1500	1500	1500	1500	1500	V <sub>RMS</sub>	-
Operating Temperature	TOPR	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	°C	-
Storage Temperature	T <sub>STG</sub>	-40/+100	-40/+100	-40/+100	-40/+100	-40/+100	°C	8



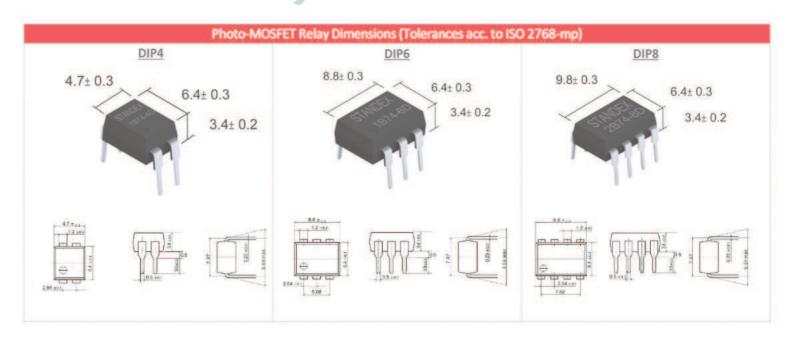
CANUS ROHS REACH COMPLIANT

Version 01 Page 1



## 74 Series Photo-MOSFET Relay

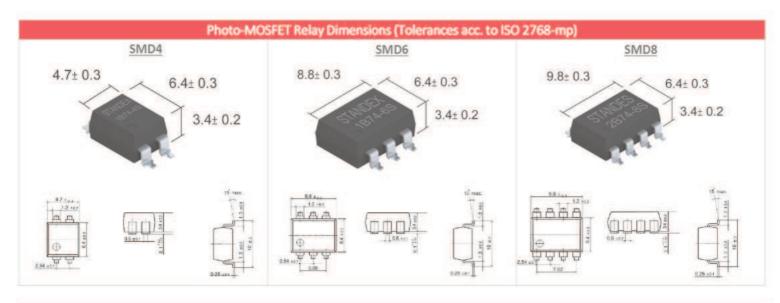
			s @ Ambient	remperatur	1000100000	TO THE REST OF THE PARTY OF THE
Parameters	Symbol	Min	Тур	Max	Units	Condition
		10	NPUT SPECIFIC	ATIONS		
LED Forward Voltage	V <sub>F</sub>	1.0	1.17	1.5	V	I <sub>F</sub> = 10mA
Operation LED Current	I <sub>F ON</sub>	*	0.9	3.0	mA	-
Recovery LED Voltage	V <sub>F OFF</sub>	0.5	1.0	7.0	V	-
		OU	TPUT SPECIFIC	CATIONS		
On Resistance: Drain to Drain	Ron	*	28	30	Ω	$I_F = 5 \text{mA}, I_L = \text{Rating (within 1 sec.)}$
Off-State Leakage Current	LEAK	-		10	μА	$I_F = 5 \text{mA}, V_L = 400 \text{V}$
Output Capacitance	C <sub>OUT</sub>	*	165	-	ρF	-
		TRANS	MISSION SPE	CIFICATIONS		
Turn-On Time	Ton	4	0.1	1.0	ms	L = EmA L = Bating (for COD tune)
Turn-Off Time	Toff	*	0.05	0.5	ms	$I_F = 5mA$ , $I_L = Rating$ (for SOP type)
Turn-On Time	Ton	-	0.15	1.0	ms	L = 10m A L = Poting /for DID /CMD tune
Turn-Off Time	T <sub>OFF</sub>		0.05	0.5	ms	$I_F = 10$ mA, $I_L = Rating$ (for DIP/SMD type
		COL	JPLED SPECIFIC	CATIONS		
I/O Insulation Resistance	R <sub>I/O</sub>	10 <sup>9</sup>		_	Ω	=
I/O Capacitance	Car	1100	1.3		pE	f=1MHz

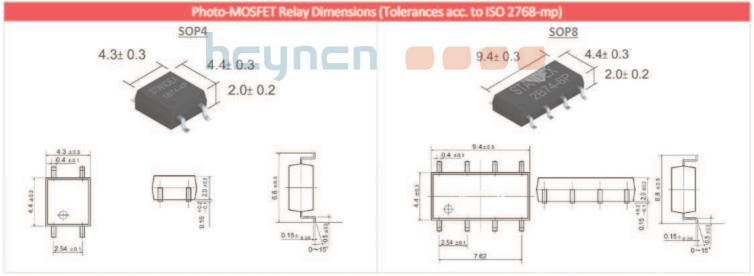


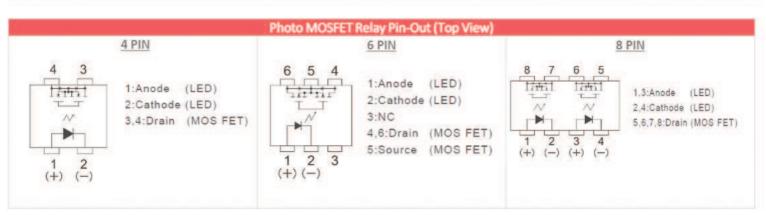
Version 01 Page 2



#### 74 Series Photo-MOSFET Relay



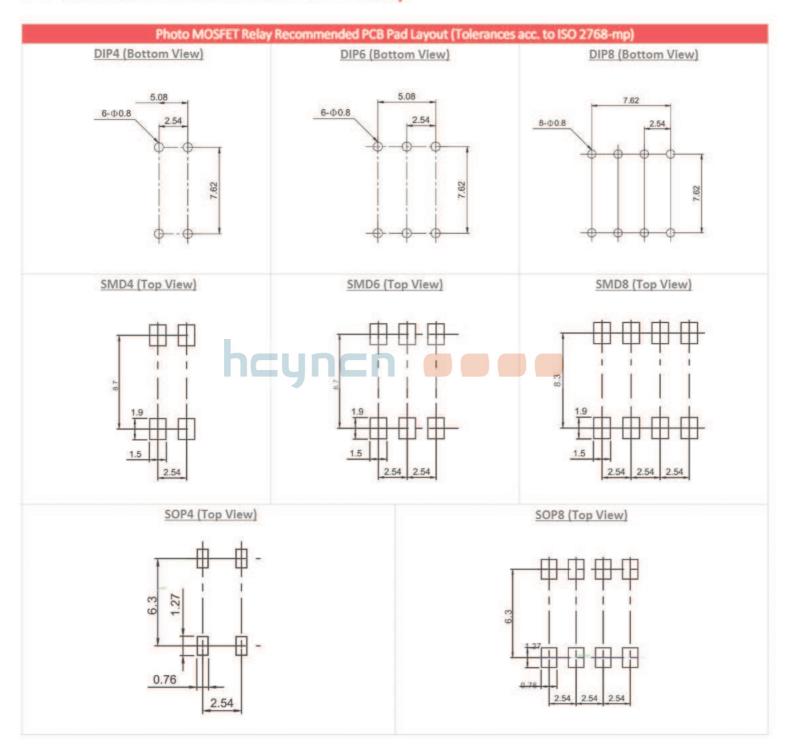




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## 74 Series Photo-MOSFET Relay



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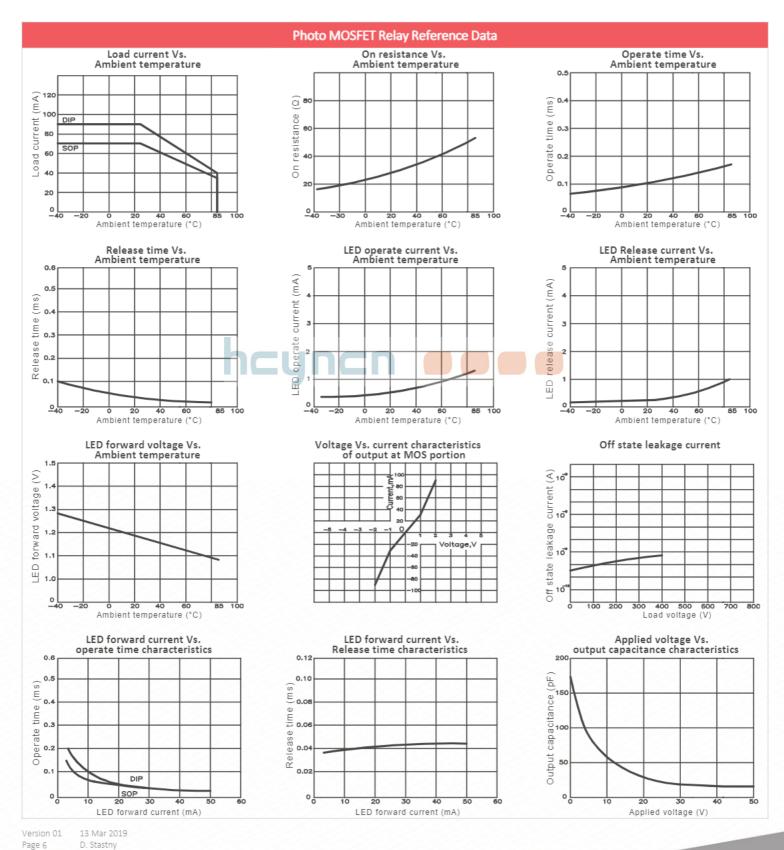
# 74 Series Photo-MOSFET Relay

		Photo-MOSFET Relay Load Connection Method	
TYPE	LOAD	CONNECTION	FEATURE
4-PIN	AC OR DC	V.(AC or DC)	Control bi-directional signal
AC OF	AC OR DC	V.(AC or DC)	Control bi-directional signal
6-PIN	N DC	V.(DC)	On-Resistance is 1/2 of connection 1  2-Make-contacts (Source Common)
	DC	V.(DC)	On-Resistance is 1/2 of connection 2
O DIAL	lie 2	LOAD V.(AC or DC)	2 inputs and 2 outputs
8-PIN	AC OR DC	V.(AC or DC)	1 input and 2 outputs

Version 01 13 Mar 2019 Page 5 D. Stastny

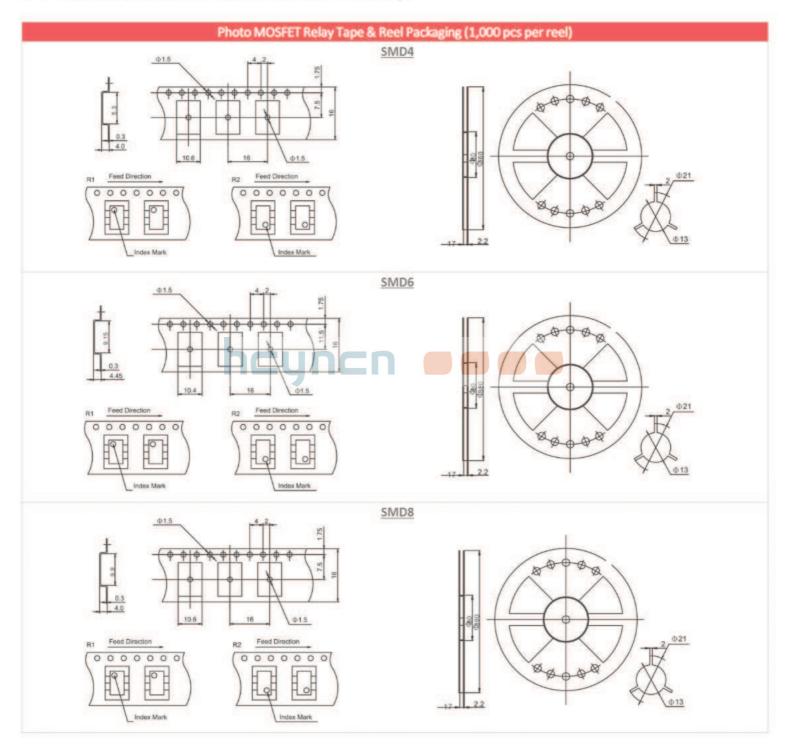


# 74 Series Photo-MOSFET Relay





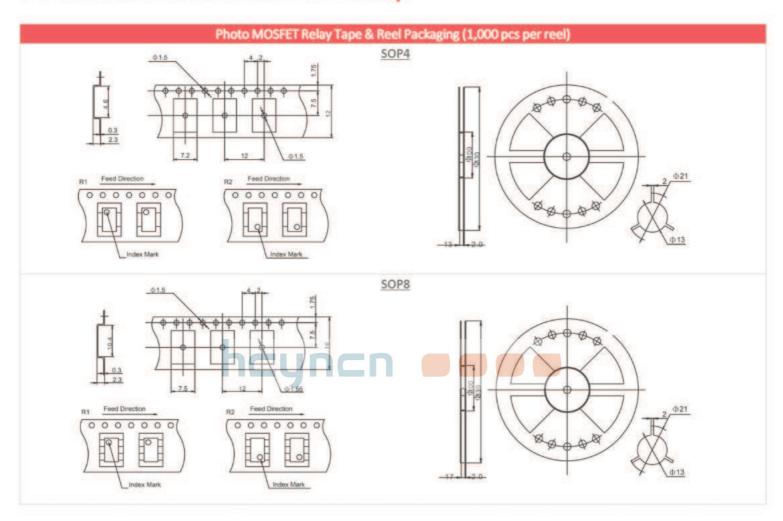
## 74 Series Photo-MOSFET Relay



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## 74 Series Photo-MOSFET Relay



	Glossary Options
D	DIP (Dual-In-Line Package)
S	SMD (Surface Mount Design)
P	SOP (Small-Outline Package)
a	AEC-Q101 / High Temperature
R	Reinforced Isolation

Please note: All technical specifications in this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes will be incorporated in future revisions.

For deviating values, latest specifications and product details, please contact your nearest sales office.

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