







Part Number: 21RS Series

General Purpose - 1 Form A / 2 Form A - PhotoDMOS Relays

Product Data Sheet

Low Capacitance
/ Resistance

PICTURE



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

✓ RoHS Compliant

ORDERING INFORMATION

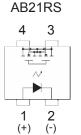
Body Style	Series	Options
AB = 4 pin AC = 8 pin	21RS	R1 = Tape & Reel

Part Number Example: XX21RS-XX

AC21RS-R1 = Series 21RS, 2 Form A, 8 Pin, with tape

and reel packaging

SCHEMATIC



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

AC21RS

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

FEATURES

- TOWARD PhotoDMOS Relays
- 40 Volt, 250 mA
- On-Resistance: 0.9 Ω (typical)
- I/O Breakdown Voltage: 1500 Vrms Min.
- Output Capacitance: 13 pFMax LED Current 3.0 mA
- Low Off-State Leakage Current 10 μ A Max
- UL File E344988 c **Tu**us

ABSOLUTE MAXIMUM RATINGS (Ambient Temperature: 25°C)								
ITEM		SYMBOL	VALUE					
	Continuos LED Current	lF	50 mA					
Input	Peak LED Current (f=100 Hz, duty=1%)	I FP	500 mA					
	LED Reverse Voltage	VR	5 V					
	Input Power Dissipation	Pln	75 mW					
Output	Load Voltage	VL	40 V (AC peak or DC)					
	Load Current (mA)	lι	250					
	Peak Load Current (1 ms, 1 shot) (mA)	I Peak	750					
	Output Power Dissipation (mW)	Pout	350 (1ch) 400 (2ch)					
Total Power Dissipation (mW)		Рт	350 (1ch) 450 (2ch)					
I/O Breakdown Voltage (Vrms)		V _{I/O}	1500					
Operating Temperature		Topr	-40° +85°C					
Storage Temperature		Tstg	-40° +100°C					

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.

Phone: (1) 973 777 6900

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ELECTRICAL SPECIFICATIONS (Ambient Temperature: 25°C)								
ITEM		SYMBOL	MIN	TYP	MAX	UNITS	CONDITIONS	
	LED Forward Voltage	VF	1.0	1.17	1.5	V	I _F = 10mA	
Input	Operation LED Current	IF On		0.3	3.0	mA		
	Recovery LED Voltage	VF Off	0.5	1.0		V		
Output	On-Resistance Drain to Drain	Ron		0.9	1.25	Ω	I _F = 5mA I _L = Rating Time to flow is within 1 sec.	
	Off-State Leakage Current	Leak		0.03	10	μA	V _L = 40V	
	Output Capacitance	Cout		13		pF	VL= 0V, f= 1MHz	
Transmission	Turn-On Time	Ton		0.07	0.5	ms	I _F = 5mA I _L = Rating	
	Turn-Off Time	Toff		0.05	0.2	ms		
Coupled	I/O Insulation Resistance	R _{I/O}	10 ⁹			Ω		
	I/O Capacitance	Cı/o		0.8		pF	f = 1MHz	

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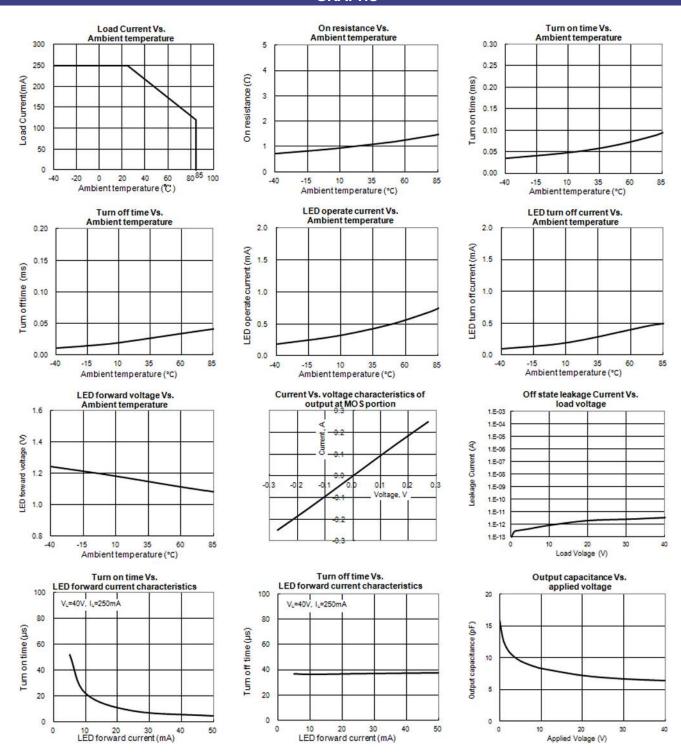
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GRAPHS



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