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Optical Switches

Optocouplers Catalogue
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H21A1-A2 200 870A 871A 875A 876A 813S3 813S5 813S7 822A1-A2 100 870B 871B 875B 876B 804 805 904: Transistor Output

		Ic ON				Ic OFF		t ON	t OFF	Vce (Sat)		Vf (LED)		BVceo	BVeco	Ic	GAP	Charact.
		Vce & If as shown; Rl = 0				Vce as shown; If = 0		If=20mA Rl=1K		Ic as shown		If as shown						Test Cond.
Units		mA			V	nA	V	µs		V (sat)	mA	V	mA	V				
	ISTS	MIN	TYP	If	Vce	TYP	Vce	TYP	TYP	MAX	Ic	MAX	If	MIN	MIN	MAX	NOM	**ISTS**
PKG1	**H21A1**	1	2.4	20	5	<100	25	25	25	0.4	0.18	1.7	60	30	6	100		**H21A1**
	H21A2	2	3.8	20	5	<100	25	25	25	0.4	1.8	1.7	60	30	6	100		**H21A2**
	200	1.9	4.9	30	5	<100	25	25	25	0.4	1.8	1.6	30	30	6	100		**200**
	870A	0.5	0.77	20	10	<100	10	25	25	0.4	0.4	1.7	20	30	5	100		**870A**
	871A	1	1.35	10	5	<100	10	25	25	0.4	0.8	1.7	20	30	5	100		**871A**
	875A	0.5	1	20	10	<100	10	25	25	0.4	0.4	1.7	20	30	5	100		**875A**
	876A	1	1.48	10	5	<100	10	25	25	0.4	0.8	1.7	20	30	5	100		**876A**
	813S3	0.075	-	20	10	<100	10	25	25	0.4	0.04	1.7	20	30	5	100		**813S3**
	813S5	0.25	-	20	10	<100	10	25	25	0.4	0.125	1.7	20	30	5	50	0.125	**813S5**
	813S7	0.35	-	20	10	<100	10	25	25	0.4	0.175	1.7	20	30	5	50		**813S7**
PKG2	**H22A1**	1	2.4	20	5	<100	25	25	25	0.4	1.8	1.7	60	30	6	100		**H22A1**
	H22A2	2	3.8	20	5	<100	25	25	25	0.4	1.8	1.7	60	30	6	100		**H22A2**
	100	1.9	4.9	30	5	<100	25	25	25	0.4	1.8	1.7	30	30	6	100		**100**
	870B	0.5	0.77	20	10	<100	10	25	25	0.4	0.4	1.7	20	30	5	100		**870B**
	871B	1	1.35	10	5	<100	10	25	25	0.4	0.8	1.7	20	30	5	100		**871B**
	875B	0.5	1	20	10	<100	10	25	25	0.4	0.4	1.7	20	30	5	100		**875B**
	876B	1	1.48	10	5	<100	10	25	25	0.4	0.8	1.7	20	30	5	100		**876B**
PKG3	**804**	0.5	1.6	20	10	<100	25	25	25	0.4	0.25	1.7	20	30	5	50	0.15	**804**
	805	0.5	1.6	20	10	<100	25	25	25	0.4	0.25	1.7	20	30	5	50		**805**
PKG4	**904**	0.5	1.6	20	10	<100	10	25	25	0.4	0.25	1.7	20	30	5	50	0.155	**904**
	Charact.	Ic ON				Ic OFF		tON	tOFF	Vce (sat)		Vf (led)		BVceo	BVeco	Ic	GAP	Charact.
	ISTS	MIN	TYP	If	Vce	TYP	TYP	TYP	TYP	MAX	Ic	MAX	If	MIN	MIN	MAX	NOM	ISTS

See also: IS21-1, MST8, IS11000, IS31000

101 201: Transistor Output

		Ic ON			Ic OFF		t ON	t OFF	Vce (Sat)		Vf (LED)		BVceo	BVeco	Ic	GAP	Charact.
		Vce & If as shown; Rl = 0			Vce as shown; If = 0		If=20mA Rl=1K		Ic as shown		If as shown						Test Cond.
Units		mA		V	nA	V	µs		V (sat)	mA	V	mA	V		mA	IN	
	ISTS	MIN	TYP	If	Vce	TYP	Vce	TYP	TYP	MAX	Ic	MAX	If	MIN	MIN	MAX	NOM	**ISTS**
PKG2	**101**	1.9	3.7	30	5	<100	25	25	25	0.4	1.8	1.7	30	30	6	100	0.125	**101**
PKG1	**201**											1.6						**201**

See also: IS1264

823A 824A: Transistor Output

		Ic ON				Ic OFF		t ON	t OFF	Vce (Sat)		Vf (LED)		BVceo	BVeco	Ic	GAP	Charact.
		Vce & If as shown; Rl = 0				Vce as shown; If = 0		If=20mA Rl=1K		Ic as shown		If as shown						Test Cond.
Units		mA			V	nA	V	µs		V (sat)	mA	V	mA	V				
PKG5	**ISTS**	MIN	TYP	If	Vce	TYP	Vce	TYP	TYP	MAX	Ic	MAX	If	MIN	MIN	MAX	NOM	**ISTS**
	823A	0.2	-	20	10	<100	10	25	25	0.4	100	1.7	20	30	5	50	0.125	**823A**
	824A	0.5									250							**824A**

703A 708 149: Transistor Output

Characteristic	Test Conditions	ISTS	703A	708	149
			PKG10	PKG11	PKG12
Diagram			1 2 3 4	1 2 3 4	
Vf	If = 40 mA	MAX	1.7 V		1.6 V
Ir	Vr = 2 V	MAX	100 µA		100 µA
BVceo	Ic = 100 µA	MIN	30 V		
BVeco	Io = 100 µA	MIN	5 V		7 V
Iceo	Vce = 10 V, If = 0, h = 0	MAX	100 nA		100 nA
tr, tf	Vcc = 5 V, Ic = 100 mA, Rl = 100		7 µs	6 µs	9 µs
Ic ON	If = 40 mA, Vce = 5 V	MIN	200 µA	10 µA	25 µA
D (assembly face to reflective surface distance)			0.2 in	0.15 in	
Vce (sat)	If = 40 mA, Ic = 100 µA, D = 0.200"	MAX	0.4 V	-	
	If = 40 mA, Ic = 3 µA, D = 0.150"		-	0.4 V	

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