



Optoisolators
Photo Transistor Output Optoisolators (Cont.)



Fig.	Iso- lation Volt.	Current Transfer Ratio - Typ. (%)			VCEO (Max.)	Digi-Key Part No.	Price Each		
		(Min.)	(Typ.)	(Max.)			1	10	100
7500	20	—	—	—	—	H11AA1SR2MCT-ND‡	.76	.59	.42
7500	20	—	—	—	—	H11AA1SR2MTR-ND‡	227.55/1,000		
7500	20	—	—	300	—	H11D1SM-ND	.77	.60	.43
7500	20	—	—	300	—	H11D1SR2MCT-ND‡	.90	.70	.50
7500	20	—	—	300	—	H11D1SR2MTR-ND‡	272.43/1,000		
7500	20	—	—	300	—	H11D1SR2VMCT-ND‡	.90	.70	.50
7500	20	—	—	300	—	H11D1SR2VMTR-ND‡	272.43/1,000		
7500	20	—	—	200	—	H11D3SM-ND	.77	.60	.43
7500	20	—	—	200	—	H11D3SR2MCT-ND‡	.90	.70	.50
7500	20	—	—	200	—	H11D3SR2MTR-ND‡	272.43/1,000		
7500	20	—	—	400	—	MOC8204SM-ND	1.00	.82	.57
7500	20	—	—	400	—	MOC8204SR2MCT-ND‡	1.12	.90	.63
7500	20	—	—	400	—	MOC8204SR2MTR-ND‡	349.68/1,000		
7500	40	—	80	70	—	CNY17F1SM-ND	.48	.41	.31
7500	60	—	—	100	—	MCT5210SM-ND	.71	.63	.50
7500	100	—	—	30	—	4N35SR2MCT-ND‡	.61	.49	.37
7500	100	—	—	30	—	4N35SR2MTR-ND‡	187.39/1,000		
7500	100	—	—	60	—	4N29SM-ND	.50	.44	.34
7500	100	—	—	60	—	4N29SR2MCT-ND‡	.70	.54	.39
7500	100	—	—	60	—	4N29SR2MTR-ND‡	208.09/1,000		
7500	100	—	—	60	—	4N30SM-ND	.50	.44	.34
7500	100	—	—	60	—	4N30SR2MCT-ND‡	.61	.53	.42
7500	100	—	—	60	—	4N30SR2MTR-ND‡	221.82/1,000		
7500	100	—	—	100	—	MCT5211SR2MCT-ND‡	1.02	.82	.57
7500	100	—	—	100	—	MCT5211SR2MTR-ND‡	316.63/1,000		
7500	120	—	—	100	—	MCT5201SM-ND	.70	.63	.50
7500	120	—	—	100	—	MCT5201SR2MCT-ND‡	.98	.79	.55
7500	120	—	—	100	—	MCT5201SR2MTR-ND‡	306.46/1,000		
7500	300	—	—	30	—	H11AG1SM-ND	.90	.70	.50
7500	300	—	—	30	—	H11AG1SR2MCT-ND‡	.98	.79	.55
7500	300	—	—	30	—	H11AG1SR2MTR-ND‡	306.46/1,000		
7500	300	—	—	60	—	TIL113SM-ND	.62	.48	.35
7500	500	—	—	60	—	4N32SM-ND	.50	.44	.34
7500	500	—	—	60	—	H11B1SM-ND	.50	.44	.34
7500	500	—	—	60	—	H11B1SR2MCT-ND‡	.60	.52	.41
7500	500	—	—	60	—	H11B1SR2MTR-ND‡	217.82/1,000		
7500	500	—	—	60	—	H11B1SR2VMCT-ND‡	.69	.54	.38
7500	500	—	—	60	—	H11B1SR2VMTR-ND‡	207.05/1,000		
7500	500	—	—	80	—	H11G2SM-ND	.77	.61	.43
7500	500	—	—	80	—	H11G2SR2MCT-ND‡	.91	.71	.51
7500	500	—	—	80	—	H11G2SR2MTR-ND‡	273.87/1,000		
7500	500	—	—	100	—	MOC8050TVM-ND	.50	.44	.34
7500	1000	—	—	100	—	H11G1SM-ND	.77	.61	.43
7500	1000	—	—	100	—	H11G1SR2MCT-ND‡	.91	.71	.51
7500	1000	—	—	100	—	H11G1SR2MTR-ND‡	273.87/1,000		
7500	1000	—	—	100	—	MOC8021SR2MCT-ND‡	.62	.54	.43
7500	1000	—	—	100	—	MOC8021SR2MTR-ND‡	225.83/1,000		
7500	—	—	200	30	—	H11F1SM-ND	2.19	1.88	1.54
7500	—	—	200	30	—	H11F1SR2MCT-ND‡	2.22	1.90	1.55
7500	—	—	200	30	—	H11F1SR2MTR-ND‡	1012.21/1,000		
7500	—	—	470	15	—	H11F3SM-ND	2.19	1.88	1.54
7500	—	—	470	15	—	H11F3SR2MCT-ND‡	2.22	1.90	1.55
7500	—	—	470	15	—	H11F3SR2MTR-ND‡	1012.21/1,000		
7500	—	—	470	15	—	H11F3SR2VMCT-ND‡	2.53	2.27	1.47
7500	—	—	470	15	—	H11F3SVM-ND	2.19	1.88	1.54
7500	500	—	—	80	—	MOC8050SR2VMCT-ND‡	.74	.64	.51
7500	500	—	—	80	—	MOC8050SR2VMTR-ND‡	269.07/1,000		
2500	10	—	—	30	—	MCT62S-ND	.82	.64	.46
2500	19	27	50	—	—	HCPL0501-ND	1.62	1.44	.93
2500	19	27	50	—	—	HCPL0453-ND	1.85	1.64	1.06
2500	19	27	50	—	—	6N136SDCT-ND‡	1.05	.95	.75
2500	19	27	50	—	—	6N136SDTR-ND‡	414.81/1,000		
2500	19	27	50	—	—	6N136S-ND	.88	.78	.62
2500	20	65	—	30	—	MOC211M-ND	.96	.78	.54
2500	40	—	80	70	—	MOC205R2MCT-ND‡	.66	.51	.36
2500	40	—	80	70	—	MOC205R2MTR-ND‡	457.70/2,500		
2500	40	—	125	70	—	MOC208M-ND	.96	.78	.54
2500	100	—	—	70	—	MOC213M-ND	.96	.78	.54
2500	100	—	—	70	—	MOC213R2MCT-ND‡	1.13	.91	.63
2500	100	—	—	70	—	MOC213R2MTR-ND‡	833.36/2,500		
2500	100	—	—	30	—	MOC217R2MCT-ND‡	1.13	.91	.63
2500	100	—	—	30	—	MOC217R2MTR-ND‡	833.36/2,500		
2500	100	—	—	30	—	MOC217R2MCT-ND‡	.63	.49	.36
2500	100	—	—	30	—	MOC217R2MTR-ND‡	425.83/2,500		

Fig.	Iso- lation Volt.	Current Transfer Ratio - Typ. (%)			VCEO (Max.)	Digi-Key Part No.	Price Each		
		(Min.)	(Typ.)	(Max.)			1	10	100
2500	100	—	—	200	70	MOC207R2MCT-ND‡	.74	.58	.41
2500	100	—	—	200	70	MOC207R2MTR-ND‡	521.26/2,500		
2500	100	—	—	200	70	MOC207R2MCT-ND‡	1.13	.91	.63
2500	100	—	—	200	70	MOC207R2MTR-ND‡	833.36/2,500		
2500	100	130	—	—	30	MOC217M-ND	.96	.78	.54
2500	100	150	200	70	—	MOC207M-ND	.96	.78	.54
2500	400	1100	—	—	—	6N139SDCT-ND‡	1.07	.96	.76
2500	400	1100	—	—	—	6N139SDTR-ND‡	420.42/1,000		
2500	400	—	5000	—	—	HCPL0701-ND	1.65	1.47	.95
2500	500	—	5000	—	—	HCPL0731-ND	3.36	2.81	2.02
2500	500	1000	—	30	—	MOC223M-ND	1.09	.89	.62
2500	500	1000	—	30	—	MOC223R2MCT-ND‡	1.27	1.02	.71
2500	500	1000	—	30	—	MOC223R2MTR-ND‡	942.08/2,500		
3000	20	65	—	30	—	MOC211M-ND	.60	.47	.34
3000	20	150	—	30	—	MOC256M-ND	.83	.65	.47
3000	40	60	80	70	—	MOC205M-ND	.60	.47	.34
3000	50	90	—	30	—	MOC212M-ND	.60	.47	.34
3000	63	94	125	70	—	MOC206M-ND	.60	.47	.34
3000	100	150	200	70	—	MOC207M-ND	.58	.46	.33
3000	100	140	—	30	—	MOC213M-ND	.60	.47	.34
3000	100	—	—	30	—	MOC217M-ND	.60	.47	.34
3000	500	1000	—	30	—	MOC223M-ND	.69	.54	.39
3750	—	—	—	5	—	FOD8001-ND	5.89	4.92	3.58
5000	19	27	50	—	—	HCPL4503SM-ND	1.83	1.62	1.05
5000	50	—	100	70	—	FOD27438SDVCT-ND‡	.99	.89	.71
5000	50	—	100	70	—	FOD27438SDVTR-ND‡	429.23/1,000		
5000	100	—	200	30	—	FOD2741ASDVCT-ND‡	1.39	1.24	.99
5000	100	—	200	30	—	FOD2741ASDVTR-ND‡	601.40/1,000		
5000	100	—	200	30	—	FOD2741BSDVCT-ND‡	.99	.89	.71
5000	100	—	200	30	—	FOD2741BSDVTR-ND‡	429.23/1,000		
5000	—	—	—	—	—	FOD3150S-ND	1.83	1.62	1.05
2500	7	18	50	15	—	6N135QT-ND	.88	.78	.62
2500	16	18	—	—	—	HCPL2530-ND	2.07	1.83	1.19
2500	19	27	50	15	—	6N136QT-ND	.88	.78	.62
2500	19	27	—	—	—	HCPL2531-ND	2.07	1.83	1.19
2500	20	—	—	30	—	MCT6-ND	.77	.60	.43
2500	50	—	600	55	—	MCT9001-ND	.82	.64	.46
2500	50	—	—	30	—	MCT61-ND	.77	.60	.43
2500	100	—	—	30	—	MCT62-ND	.82	.64	.46
2500	300	1300	—	7	—	6N138QT-ND	.89	.79	.63
2500	300	—	—	7	—	HCPL2730QT-ND	2.07	1.83	1.19
2500	400	1100	—	18	—	6N139QT-ND	.89	.79	.63
2500	400	—	—	18	—	HCPL2731QT-ND	1.58	1.43	1.15
2500	—	—	—	—	—	HCPL3700-ND	2.87	2.59	2.11
5000	19	27	50	—	—	HCPL4503M-ND	1.49	1.28	1.04
5000	—	—	—	30	—	FOD3120-ND	2.33	2.06	1.33
5000	—	—	—	30	—	FOD3150-ND	1.83	1.62	1.05

† VDE approval ▲ 4" Lead Spacing ‡ Cut Tape ◊ Tape and Reel

Triac Drivers

Fig.	VDRM (V)	IT (A)	Digi-Key Part No.	1	Pricing 10	100
4	600	3	FOD410-ND	2.24	20.02	164.16
	600	3	FOD4116-ND	2.49	22.22	182.22
	800	3	FOD4108-ND	2.49	22.22	182.22
	800	3	FOD4118-ND	3.20	28.63	234.75
5	800	3	FOD4208SV-ND	2.98	26.81	218.46

SCR and Triac Output Optoisolators

Fig.	Isolation Volt.	Max. IF Trigger (mA)	Minimum Blocking Voltage	Max. IDRM	Digi-Key Part No.	Price Each		
						1	10	100
2	3750	5	—	500nA	FODM3063R2CT-ND‡	1.56	1.34	1.10
	3750	5	—	500nA	FODM3063R2TR-ND‡	1505.50/2,500		
3	3750	5	—	100nA	FODM3053R2V_NF098CT-ND‡	1.28	1.15	.92
	3750	5	—	100nA	FODM3053R2V_NF098TR-ND‡	1307.31/2,500		
	3750	10	400	100nA	FODM3022R3VCT-ND‡	.76	.64	.51
	3750	10	400	100nA	FODM3022R3VTR-ND‡	214.41/500		
	3750	60	—	100nA	FODM3053V_NF098-ND	1.23</		