

Fig.	Iso- lation Volt.	Current Transfer Ratio - Typ. (%)			VCE0 (Max.)	Pkg. Type	Digi-Key Part No.	Price Each		
		(Min.)	Typ.	(Max.)				1	10	100
16	2500	400	1100	—	—	SMD	6N139SDTR-ND◆	—	318.34/1.000	—
	2500	400	—	7000	—	SOIC	FOD073LR1CT-ND◆	3.45	2.88	2.10
	2500	400	—	7000	—	SOIC	FOD073LR1TR-ND◆	—	757.94/500	—
17	5000	50	—	100	70	SMD	FOD2743ASDVCT-ND◆	1.31	1.05	.73
	5000	50	—	100	70	SMD	FOD2743ASDVTR-ND◆	—	406.56/1,000	—
	5000	50	—	100	70	SMD	FOD2743BSDVCT-ND◆	.95	.76	.53
18	5000	50	—	100	70	SMD	FOD2743BSDVTR-ND◆	—	294.76/1,000	—
	5000	50	—	100	70	SMD	FOD2743CSDVCT-ND◆	.91	.74	.51
	5000	50	—	100	70	SMD	FOD2743CSDVTR-ND◆	—	284.59/1,000	—
19	5000	100	—	200	30	DIP	FOD2711TV-ND◆	.58	.44	.33
	2500	100	—	200	30	SOIC	FOD2712R1VCT-ND◆	1.05	.84	.59
	2500	100	—	200	30	SOIC	FOD2712R1VTR-ND◆	—	197.47/500	—
20	5000	100	—	200	30	SMD	FOD2741ASDVCT-ND◆	1.31	1.05	.73
	5000	100	—	200	30	SMD	FOD2741ASDVTR-ND◆	—	406.56/1,000	—
	5000	100	—	200	30	SMD	FOD2741BSDVCT-ND◆	.95	.76	.53
21	5000	100	—	200	30	SMD	FOD2741BSDVTR-ND◆	—	294.76/1,000	—
	5000	100	—	200	30	SMD	FOD2741CSDVCT-ND◆	.61	.51	.41
	2500	100	140	200	70	SOIC	FOD2742AR1VCT-ND◆	1.15	.92	.64
22	2500	100	140	200	70	SOIC	FOD2742AR1VTR-ND◆	—	355.74/1,000	—
	2500	100	140	200	70	SOIC	FOD2742BR1VCT-ND◆	.89	.71	.50
	2500	100	140	200	70	SOIC	FOD2742BR1VTR-ND◆	—	166.62/500	—
23	2500	100	140	200	70	SOIC	FOD2742CR1VCT-ND◆	.82	.66	.46
	2500	100	140	200	70	SOIC	FOD2742CR1VTR-ND◆	—	154.28/500	—
	5000	1000	4000	15000	300	DIP	FOD852-ND◆	.49	.37	.28
24	5000	1000	4000	15000	300	DIP	FOD852S-ND◆	.49	.37	.28
	5000	1000	4000	15000	300	SMD	FOD852SDCT-ND◆	.52	.40	.30
	5000	1000	4000	15000	300	SMD	FOD852SDTR-ND◆	—	173.80/1,000	—
25	5000	1000	4000	15000	300	DIP	FOD852W-ND◆	.49	.37	.28
	5000	1000	4000	15000	300	DIP	FOD852300-ND◆	.49	.37	.28
	5000	1000	4000	15000	300	DIP	FOD852300W-ND◆	.49	.37	.28
26	5000	1000	4000	15000	300	SMD	FOD8523S-ND◆	.49	.37	.28
	5000	1000	4000	15000	300	SMD	FOD8523SDCT-ND◆	.52	.40	.30
	5000	1000	4000	15000	300	SMD	FOD8523SDTR-ND◆	—	347.61/2,000	—
27	2500	—	—	—	—	DIP	HCLP3700-ND◆	2.50	2.22	1.43
	2500	100	—	200	70	SMD	MOC207R1MCT-ND◆	.60	.47	.34
	2500	100	—	200	70	SMD	MOC207R1MTR-ND◆	—	114.71/500	—
28	2500	100	—	200	70	SMD	MOC207R2MCT-ND◆	.57	.44	.32
	2500	100	—	200	70	SMD	MOC207R2MTR-ND◆	—	397.92/2,500	—
	2500	100	—	200	70	SOIC	MOC207R1MCT-ND◆	.91	.74	.51
29	2500	100	—	200	70	SOIC	MOC207R1MTR-ND◆	—	173.28/500	—
	2500	100	—	200	70	SOIC	MOC207R2MCT-ND◆	.91	.74	.51
	2500	100	—	200	70	SOIC	MOC207R2MTR-ND◆	—	677.84/2,500	—
30	5000	40	—	80	70	SMD	FOD617AS-ND◆	.37	.27	.18
	5000	40	—	80	70	SMD	FOD617A3S-ND◆	.37	.27	.18
	5000	63	—	125	70	SMD	FOD617B3SDCT-ND◆	.48	.37	.24
31	5000	63	—	125	70	SMD	FOD617B3SDTR-ND◆	—	122.79/1,000	—
	7500	100	—	—	60	SMD	4N29SM-ND◆	.48	.38	.28
	7500	100	—	—	60	SMD	4N29SR2MCT-ND◆	.56	.44	.31
32	7500	100	—	—	60	SMD	4N29SR2MTR-ND◆	—	168.19/1,000	—
	7500	100	—	—	60	SMD	4N30SM-ND◆	.48	.38	.28
	7500	100	—	—	60	SMD	4N30SR2MCT-ND◆	.56	.44	.31
33	7500	100	—	—	60	SMD	4N30SR2MTR-ND◆	—	168.19/1,000	—
	7500	500	—	—	60	SMD	4N32SM-ND◆	.48	.38	.28
	7500	20	—	—	80	SMD	4N32SR2MCT-ND◆	.78	.61	.44
34	7500	20	—	—	80	SMD	4N32SR2MTR-ND◆	—	235.22/1,000	—
	7500	40	—	80	70	SMD	CHY17F1SM-ND◆	.43	.34	.25
	7500	300	—	—	30	SMD	H11AG1SM-ND◆	.77	.61	.43
35	7500	300	—	—	30	SMD	H11AG1SR2MCT-ND◆	.85	.68	.48
	7500	300	—	—	30	SMD	H11AG1SR2MTR-ND◆	—	264.55/1,000	—
	7500	500	—	—	60	SMD	H11B1SM-ND◆	.48	.38	.28
36	7500	500	—	—	60	SMD	H11B1SR2MCT-ND◆	.56	.44	.31
	7500	500	—	—	60	SMD	H11B1SR2MTR-ND◆	—	168.19/1,000	—
	7500	500	—	—	60	SMD	H11B1SR2VMCT-ND◆	.56	.44	.31
37	7500	500	—	—	60	SMD	H11B1SR2VMTR-ND◆	—	168.19/1,000	—
	7500	20	—	—	300	SMD	H11D1SM-ND◆	.66	.52	.37
	7500	20	—	—	300	SMD	H11D1SR2MCT-ND◆	.78	.61	.44
38	7500	20	—	—	300	SMD	H11D1SR2MTR-ND◆	—	235.22/1,000	—
	7500	20	—	—	300	SMD	H11D1SR2VMCT-ND◆	.78	.61	.44
	7500	20	—	—	300	SMD	H11D1SR2VMTR-ND◆	—	235.22/1,000	—
39	7500	20	—	—	300	SMD	H11D2SR2MCT-ND◆	.78	.61	.44
	7500	20	—	—	300	SMD	H11D2SR2MTR-ND◆	—	235.22/1,000	—
	7500	20	—	—	300	SMD	H11D2SR2VMCT-ND◆	.78	.61	.44
40	7500	20	—	—	300	SMD	H11D2SR2VMTR-ND◆	—	235.22/1,000	—
	7500	200	—	—	200	SMD	H11D3SR2MCT-ND◆	.66	.52	.37
	7500	200	—	—	200	SMD	H11D3SR2MTR-ND◆	—	235.22/1,000	—
41	7500	200	—	—	200	SMD	H11F1SM-ND◆	2.08	1.85	1.20
	7500	—	—	—	200	SMD	H11F1SR2MCT-ND◆	2.29	2.06	1.33
	7500	—	—	—	200	SMD	H11F1SR2MTR-ND◆	—	830.14/1,000	—
42	7500	—	—	—	15	SMD	H11F3SM-ND◆	2.08	1.85	1.20
	7500	—	—	—	15	SMD	H11F3SR2MCT-ND◆	2.29	2.06	1.33
	7500	—	—	—	15	SMD	H11F3SR2MTR-ND◆	—	830.14/1,000	—
43	7500	—	—	—	15	SMD	H11F3SR2VMCT-ND◆	2.29	2.06	1.33
	7500	—	—	—	15	SMD	H11F3SR2VMTR-ND◆	—	830.14/1,000	—
	7500	—	—	—	15	SMD	H11F3SVM-ND◆	2.08	1.85	1.20
44	7500	1000	—	—	100	SMD	H11G1SM-ND◆	.67	.52	.38
	7500	1000	—	—	100	SMD	H11G1SR2MCT-ND◆	.79	.61	.44
	7500	1000	—	—	100	SMD	H11G1SR2MTR-ND◆	—	236.40/1,000	—
45	7500	500	—	—	80	SMD	H11G2SM-ND◆	.67	.52	.38
	7500	500	—	—	80	SMD	H11G2SR2MCT-ND◆	.79	.61	.44
	7500	500	—	—	80	SMD	H11G2SR2MTR-ND◆	—	236.40/1,000	—
46	7500	200	—	—	55	SMD	H11G3SR2MCT-ND◆	.80	.62	.44
	7500	200	—	—	55	SMD	H11G3SR2MTR-ND◆	—	239.93/1,000	—
	7500	120	—	—	100	SMD	MCT5201SM-ND◆	.75	.61	.43
47	7500	120	—	—	100	SMD	MCT5201SR2MCT-ND◆	.85	.68	.48
	7500	120	—	—	100	SMD	MCT5201SR2MTR-ND◆	—	264.55/1,000	—
	7500	60	—	—	100	SMD	MCT5210SM-ND◆	.77	.61	.43
48	7500	100	—	—	100	SMD	MCT5211SR2MCT-ND◆	.88	.71	.49
	7500	100	—	—	100	SMD	MCT5211SR2MTR-ND◆	—	273.33/1,000	—
	7500	1,000	—	—	100	SMD	MOC8021SR2MCT-ND◆	.73	.57	.41
49	7500	1,000	—	—	100	SMD	MOC8021SR2MTR-ND◆	—	218.76/1,000	—
	7500	500	—	—	100	SMD	MOC8050SR2MCT-ND◆	.79	.61	.44
	7500	500	—	—	100	SMD	MOC8050SR2MTR-ND◆	—	236.40/1,000	—
50	7500	20	—	—	400	SMD	MOC8204SM-ND◆	1.05	.86	.59

Fig.	Iso- lation Volt.	Current Transfer Ratio - Typ. (%)			VCE0 (Max.)	Pkg. Type	Digi-Key Part No.	Price Each		
		(Min.)	Typ.	(Max.)				1	10	100
23	7500	20	—	—	400	SMD	MOC8204SR2MCT-ND◆	1.22	.98	.68
	7500	20	—	—	400	SMD	MOC8204SR2MTR-ND◆	—	379.81/1,000	—
	7500	300	—	—	60	SMD	TIL113SM-ND◆	.53	.42	.30
24	7500	100	—	—	60	DIP	4N29M-ND◆	.48	.38	.28
	7500	100	—	—	60	DIP	4N30M-ND◆	.48	.38	.28
	7500	500	—	—	60	DIP	4N32M-ND◆	.48	.38	.28
25	7500	500	—	—	60	DIP	4N32VM-ND◆	.48	.38	.28
	7500	500	—	—	60	DIP	4N33M-ND◆	.44	.35	.25
	7500	500	—	—	60	DIP	4N33VM-ND◆	.48	.38	.28
26	7500	500	—	—	80	DIP	4N38M-ND◆	.66	.52	.37
	7500	300	—	—	30					

SCR and Triac Output Optoisolators (Cont.)

Fig.	Isolation Voltage	Max IF Trigger (mA)	Minimum Blocking Voltage	Max. IDRM	Pkg. Type	Digi-Key Part No.	Price Each		
							1	10	100
31	3750	60	250	100nA	MFP	FODM3011R1_NF098CT-ND‡	.52	.40	.30
	3750	60	250	100nA	MFP	FODM3011R1_NF098TR-ND‡	96.76	50	—
	3750	60	250	100nA	MFP	FODM3012R1_NF098CT-ND‡	.60	.45	.34
	3750	60	250	100nA	MFP	FODM3012R1_NF098TR-ND‡	103.82	50	—
	3750	60	600	100nA	MFP	FODM3052R1_NF098CT-ND‡	.65	.55	.44
	3750	60	600	100nA	MFP	FODM3052R1_NF098TR-ND‡	144.84	50	—
32	3750	60	600	500nA	MFP	FODM3062-ND	.91	.77	.61
	3750	60	600	500nA	MFP	FODM3063-ND	1.00	.84	.67
	3750	60	800	500nA	MFP	FODM3082-ND	1.09	.88	.66
	3750	60	800	500nA	MFP	FODM3083-ND	1.13	.90	.68
	7500	60	5300	100nA	SMD	MOC3021SR2MCT-ND	.67	.52	.37
	7500	60	5300	100nA	SMD	MOC3021SR2MTR-ND	199.94	1,000	—
36	7500	60	5300	100nA	SMD	MOC3023SR2MCT-ND	.67	.52	.37
	7500	60	5300	100nA	SMD	MOC3023SR2MTR-ND	201.12	1,000	—
	7500	60	5300	100nA	SMD	MOC3052SM-ND	.76	.62	.43
	7500	60	5300	100nA	SMD	MOC3052SR2MCT-ND	.90	.70	.50
	7500	60	5300	100nA	SMD	MOC3052SR2MTR-ND	270.51	1,000	—
	7500	60	5300	100nA	DIP	MOC3052VM-ND	.76	.62	.43
37	7500	60	5300	100nA	SMD	MOC3043SM-ND	.88	.72	.50
	7500	60	5300	500nA	DIP	MOC3063VM-ND	1.00	.82	.57
	7500	60	5300	500nA	SMD	MOC3083SR2MCT-ND	1.27	1.02	.71
	7500	60	5300	500nA	SMD	MOC3083SR2MTR-ND	395.18	1,000	—

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

4-Pin Couplers

Fig.	Isol. Voltage	Current Transfer Ratio	V _{CEO} (Max.)	Typ. ton/off (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each		
							1	10	100
14A	2500	50-600%	80	3/3	MFP	HMHA281-ND†	.36	.29	.22
	5000	40-80%	70	4/3	DIP	FOD617A-ND†	.37	.27	.18
	5000	63-125%	70	4/3	DIP	FOD617B-ND†	.37	.27	.18
	5000	100-200%	70	4/3	DIP	FOD617C-ND†	.37	.27	.18
	5000	160-320%	70	4/3	DIP	FOD617D-ND†	.37	.27	.18
	5000	40-80%	70	4/3	DIP	FOD617A300-ND†	.33	.27	.19
14B	5000	63-125%	70	4/3	DIP	FOD617B300-ND†	.33	.27	.19
	5000	100-200%	70	4/3	DIP	FOD617C300-ND†	.33	.27	.19
	5000	160-320%	70	4/3	DIP	FOD617D300-ND†	.33	.27	.19
	5000	20-300%	70	4/3	DIP	FOD814-ND	.38	.31	.24
	5000	20-300%	70	4/3	SMD	FOD814S-ND	.35	.28	.21
	5000	20-300%	70	4/3	SMD	FOD814SDCT-ND‡	.35	.27	.20
	5000	20-300%	70	4/3	SMD	FOD814SDTR-ND‡	231.74	2,000	—
	5000	20-300%	70	4/3	DIP	FOD814W-ND▲	.35	.28	.21
	5000	20-300%	70	4/3	DIP	FOD814300-ND†	.35	.28	.21
	5000	20-300%	70	4/3	DIP	FOD814300W-ND†▲	.35	.28	.21
	5000	20-300%	70	4/3	SMD	FOD8143S-ND†	.35	.28	.21
	5000	20-300%	70	4/3	SMD	FOD8143SDCT-ND‡	.35	.27	.20
	5000	20-300%	70	4/3	SMD	FOD8143SDTR-ND‡	231.74	2,000	—
	5000	50-150%	70	4/3	DIP	FOD814A-ND	.38	.30	.22
	5000	50-150%	70	4/3	SMD	FOD814AS-ND	.38	.30	.22
	5000	50-150%	70	4/3	SMD	FOD814ASDCT-ND‡	.35	.27	.20
	5000	50-150%	70	4/3	SMD	FOD814ASDTR-ND‡	115.87	1,000	—
	5000	50-150%	70	4/3	DIP	FOD814AW-ND▲	.41	.32	.23
5000	50-150%	70	4/3	DIP	FOD814A300-ND†	.38	.30	.22	
5000	50-150%	70	4/3	DIP	FOD814A300W-ND†▲	.41	.33	.24	
5000	50-150%	70	4/3	SMD	FOD814A3S-ND†	.38	.30	.22	
5000	50-150%	70	4/3	SMD	FOD814A3SDCT-ND‡	.35	.27	.20	
5000	50-150%	70	4/3	SMD	FOD814A3SDTR-ND‡	115.87	1,000	—	
14C	2500	50-600%	7	3/3	DIP	HMHA280R1CT-ND‡	.37	.28	.21
	2500	50-600%	7	3/3	DIP	HMHA280R1TR-ND‡	65.05	500	—
	2500	50-600%	80	3/3	MFP	HMHA280R4VCT-ND‡	.37	.28	.21
	2500	50-600%	80	3/3	MFP	HMHA280R4VTR-ND‡	302.02	2,500	—
	5000	600-7500%	35	60/53	SMD	FOD816S-ND	.42	.34	.26
	5000	600-7500%	35	60/53	SMD	FOD816SDCT-ND‡	.38	.29	.22
14D	5000	600-7500%	35	60/53	SMD	FOD816SDTR-ND‡	126.49	1,000	—
	5000	600-7500%	35	60/53	DIP	FOD816W-ND▲	.42	.34	.26
	5000	600-7500%	35	60/53	DIP	FOD816300-ND†	.42	.34	.26
	5000	600-7500%	35	60/53	DIP	FOD816300W-ND†▲	.42	.34	.26
	5000	600-7500%	35	60/53	SMD	FOD8163S-ND†	.42	.34	.26
	5000	600-7500%	35	60/53	SMD	FOD8163SDCT-ND‡	.38	.29	.22
5000	600-7500%	35	60/53	SMD	FOD8163SDTR-ND‡	126.49	1,000	—	

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

Logic Output Optoisolators

Fig.	Function	Input: LSTTL Output	15M Baud Rl. Output Configuration	Package Type	Digi-Key Part No.	Price Each			Tape & Reel Qty	Reel Pricing
						1	10	100		
26	Buff.	TTL	Totem Pole	SMD	HCPL2630S-ND	1.76	1.42	1.06	—	—
33	Buff.	TTL	Totem Pole	SMD	FOD0708R1CT-ND‡	2.06	1.65	1.29	500	594.59
34	Buff.	TTL	Totem Pole	SMD	FOD0710-ND	2.89	2.32	1.80	—	—
	Buff.	TTL	Totem Pole	SMD	FOD0720-ND	2.00	1.60	1.24	—	—
	Buff.	TTL	Totem Pole	SMD	FOD0721-ND	2.19	1.76	1.37	—	—
35	Buff.	TTL	Totem Pole	SMD	FOD0738R1CT-ND‡	4.02	3.22	2.51	1,000	2321.75

Fig.	Isolation Voltage	Ifon Current (Max.) mA	ICCL (Max.) mA	Oper. Voltage (Max.) mV	Pkg. Type	Digi-Key Part No.	Price Each			T & R Pricing @ 1,000
							1	10	100	
36	5000	1.6	7.0	2.0	SMD	FOD2200SDVCT-ND‡	2.32	2.08	1.35	840.93
37	2500	50	13	5.5	SOIC	HCPL0600-ND	1.38	1.11	.83	—
	3750	50	13	5.5	SOIC	HCPL0601-ND	1.69	1.36	1.02	—
	2500	50	13	7.0	SMD	6N137SDCT-ND‡	1.00	.81	.56	311.75
38	2500	—	—	—	SOIC	HCPL062N-ND	3.11	2.49	1.94	—
	3750	50	13	7.0	SOICW	HCPL0637-ND	1.36	1.09	.82	—
	3750	—	—	—	SOICW	HCPL0638-ND	1.45	1.17	.88	—
39	2500	—	—	—	SMD	HCPL2631SDCT-ND‡	2.08	1.87	1.21	754.68
40	5300	1.6	5	16	DIP	H11L1-MOT-ND	.76	.59	.43	—
	5300	1.6	5	16	SMD	H11L1SM-ND	.81	.64	.46	—
	7500	60	5	15	SMD	H11L1SR2MCT-ND‡	.86	.67	.48	258.75
	7500	1.6	5	15	SMD	H11L1SR2VMCT-ND‡	.85	.68	.48	263.45
	7500	1.6	5	15	SMD	H11L1SVM-ND†	.81	.64	.46	—
	7500	1.6	5	15	DIP	H11L1TM-ND	.81	.64	.46	—
	7500	1.6	5	15	DIP	H11L1TVM-ND†	.81	.64	.46	—
	5300	1.6	5	16	DIP	H11L1VM-MOT-ND†	.76	.59	.42	—
	5300	10	5	16	DIP	H11L1VM-ND	.81	.64	.46	—
	5300	10	5	16	DIP	H11L2-MOT-ND	.50	.42	.34	—
	7500	10.0	5	15	SOIC	H11L2M-ND	.81	.64	.46	—
	7500	10.0	5	15	SMD	H11L2SM-ND	.78	.64	.44	—
41	7500	10.0	5	15	SMD	H11L2SR2MCT-ND‡	.85	.68	.48	263.45
	7500	10.0	5	15	SMD	H11L2SVM-ND†	.78	.64	.44	—
	7500	10.0	5	15	DIP	H11L2TM-ND†	.78	.64	.44	—
	7500	10.0	5	15	DIP	H11L2VM-ND†	.81	.64	.46	—
	7500	60	5	16	DIP	H11L3M-ND	.81	.64	.46	—
	5300	3.2	10	16	DIP	H11N1-MOT-ND	2.06	1.83	1.18	—
5300	10	10	16	DIP	H11N3-M-ND	2.03	1.80	1.17	—	

Fig.	Isolation Voltage	Maximum Prop. Delay (ns)	Typical CMR V/µsec.	IF (mA)	Pkg. Type	Digi-Key Part No.	Price Each		
							1	10	100
29	2500	100	10,000	50	SMD	6N137S-ND	.81	.66	.46
	2500	100	10,000	50	SMD	HCPL0601R1CT-ND‡	1.71	1.37	1.03
	2500	100	10,000	50	SMD	HCPL0601R1TR-ND‡	890.08	1,000	—
41	2500	75	10,000	5	DIP	6N137QT-ND	.81	.66	.46
	2500	75	10,000	5	DIP	HCPL2601QT-ND	1.33	1.18	.76
	2500	75	10,000	5	DIP	HCPL2611-ND	1.52	1.35	.87
42	2500	75	10,000	5	DIP	HCPL2630QT-ND	2.47	2.19	1.42
	2500	75	10,000	5	DIP	HCPL2631QT-ND	1.92	1.71	1.10

Fig.	Isolation Voltage	BV _{CEO} Minimum	Typ. ton/off (µsec.)	Package Type	Digi-Key Part No.	Price Each		
						1	10	100
43	2500	5	1/1	DIP	MID400-ND	2.54	2.12	1.53

◊ For Tape and Reel change CT-ND to TR-ND ‡ Cut Tape § Tape and Reel † VDE approval

FET Outputs

Fig.
