

# FAIRCHILD LED Optocoupler Products



RoHS Compliant This product is RoHS compliant.  
 ◆ Surface Mount Device

## ZERO-CROSSING TRIAC OUTPUT

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Safety Standard	V <sub>DRM</sub> (Max.) (mA)	I <sub>FT</sub> (Max.) (mA)	V <sub>TM</sub> (Typ./Max.) (V)	I <sub>DRM</sub> (Typ./Max.) (nA)	Isolation Voltage (V <sub>ISO</sub> )	dv/dt (Min.) (V/μS)	I <sub>H</sub> (Typ./Max.) (μA)	Price Each			
Mfr.	Mfr. Part No.										1	25	100	250
◆	512—MOC3033SM	SMDIP-6	-----	250	5	1.8/3.0	----/100	7.5kV	1000	400/----	1.07	.91	.772	.648
	512—MOC3032M	DIP-6	-----	250	10	1.8/3.0	----/100	7.5kV	1000	400/----	.88	.71	.612	.544
	512—MOC3033M	DIP-6	-----	250	10	1.8/3.0	----/100	7.5kV	1000	400/----	.99	.638	.514	.38
	512—MOC3031-M	DIP-6	-----	250	15	1.8/3.0	----/100	7.5kV	1000	400/----	.95	.75	.663	.589
◆	512—MOC3031SM	SMDIP-6	-----	250	15	1.8/3.0	----/100	7.5kV	1000	400/----	.99	.847	.709	.60
	512—MOC3043M	DIP-6	-----	400	5	1.8/3.0	----/100	7.5kV	1000	400/----	1.14	.833	.791	.703
◆	512—MOC3043SM	SMDIP-6	-----	400	5	1.8/3.0	----/100	7.5kV	1000	400/----	1.03	.914	.714	.635
	512—MOC3042M	DIP-6	-----	400	10	1.8/3.0	----/100	7.5kV	1000	400/----	1.06	.828	.739	.657
	512—MOC3041-M	DIP-6	-----	400	15	1.8/3.0	----/100	7.5kV	1000	400/----	1.06	.855	.739	.657
◆	512—MOC3041SM	SMDIP-6	-----	400	15	1.8/3.0	----/100	7.5kV	1000	400/----	1.03	.88	.744	.63
	512—MOC3063M	DIP-6	UL	600	5	1.8/3.0	10/100	7.5kV	600	500/----	1.21	.90	.842	.748
◆	512—MOC3063SM	SMDIP-6	UL	600	5	1.8/3.0	10/100	7.5kV	600	500/----	1.21	1.04	.872	.736
	512—MOC3062-M	DIP-6	UL	600	10	1.8/3.0	10/100	7.5kV	600	500/----	1.06	.824	.739	.657
	512—MOC3083M	DIP-6	UL	800	5	1.8/3.0	10/500	7.5kV	600	500/----	1.51	1.06	1.04	.929
◆	512—MOC3083SR2M	SMDIP-6	UL	800	5	1.8/3.0	10/500	7.5kV	600	500/----	1.47	1.18	1.02	.898
	512—FOD4118	DIP-6	UL/VDE/CSA	800	30	2.2/3.0	3/100	5.0kV	10000	200/500	3.57	3.15	2.93	2.37

## SPECIAL FUNCTION DEVICES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Safety Standard	V <sub>CC</sub> (V)	V <sub>OL</sub> (Typ./Max.) (V)	I <sub>OH</sub> (Typ./Max.) (μA)	I <sub>ON</sub> RMS (Min.) (mA)	I <sub>OFF</sub> RMS (Max.) (mA)	Isolation Voltage (V <sub>ISO</sub> )	Turn-On Time (Typ.) (ms)	Turn-Off Time (Typ.) (ms)	Price Each			
Mfr.	Mfr. Part No.											1	25	100	250
<b>AC Line Monitor Logic Output</b>															
	512—MID400	DIP-8	UL	7.0	0.18/0.40	0.02/100	4	0.15	2.5kV	1.0	1.0	3.84	3.29	3.13	2.85
<b>AC/DC To Logic Interface</b>															
	512—HCPL-3700	DIP-8	UL	18	0.04/0.4	----/100	----	----	2.5kV	15	40	3.22	2.87	2.63	2.39

## INFRARED PHOTOTRANSISTORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	V <sub>CE</sub> (Max.) (V)	Power Dissipation (Max.) (mW)	I <sub>C(ON)</sub> (Min.) (mA)	Peak Sensitivity Wavelength (nm)	Reception Angle (°)	I <sub>CEO</sub> (Max.) (nA)	Rise/Fall Time (Typ.) (ms)	Price Each			
Mfr.	Mfr. Part No.									1	25	100	250
	512—QSD123	T-1 3/4	30	100	4	880	±12	100	7.0/7.0	.39	.34	.283	.24
	512—QSD124	T-1 3/4	30	100	6	880	±12	100	7.0/7.0	.39	.34	.283	.24

## PIN PHOTODIODES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	V <sub>R</sub> (Max.) (V)	Power Dissipation (Max.) (mW)	V <sub>F</sub> (Typ.) (V)	Peak Emission Wavelength (nm)	Reception Angle (°)	I <sub>D</sub> (Max.) (nA)	Rise/Fall Time (Typ.) (ms)	Price Each			
Mfr.	Mfr. Part No.									1	25	100	250
	512—QSD2030	T-1 3/4	50	100	1.3	880	±20	10	5.0/5.0	.31	.28	.23	.203
	512—QSD2030F	T-1 3/4	50	100	1.3	880	±20	10	5.0/5.0	.32	.292	.24	.212
	512—QSE773	Sidelooker	32	150	----	940	±60	30	0.05/0.05	.79	.58	.437	.33

## PHOTO SENSORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Supply Voltage (V)	Output Voltage (V)	Output Current (V)	Power Dissipation (mW)	Threshold Irradiance (mW/cm <sup>2</sup> )	High Level Output Curr. (μA)	Low Level Output Volt. (V)	High/Low Level Supply Curr. (Max.) (mA)	Output Rise/Fall (Typ.) (ms)	Price Each			
Mfr.	Mfr. Part No.											1	25	100	250
	512—QSE1103	Sidelooker	4.5 to 5.5	7	50	100	8	2	0.6	15/18	25/20	3.24	2.63	2.11	1.80
	512—QSE256	Sidelooker	4.0 to 16	35	50	100	0.25	100	0.4	4.5/16.0	----/----	.88	.66	.50	.37
	512—QSE257	Sidelooker	4.0 to 17	35	50	100	0.25	100	0.4	4.5/16.0	----/----	.88	.66	.50	.37
	512—QSE258	Sidelooker	4.0 to 18	35	50	100	0.25	100	0.4	4.5/16.0	----/----	.88	.66	.50	.37
	512—QSE259	Sidelooker	4.0 to 19	35	50	100	0.25	100	0.4	4.5/16.0	----/----	1.47	1.22	.98	.74
	512—QSE159	Sidelooker	4.0 to 16	35	50	100	0.25	100	0.4	5.0/5.0	100/100	.83	.70	.595	.523



## ISOLATED ERROR AMPLIFIERS ◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Safety Standard	Tolerance (%)	Reference Voltage			BV <sub>CEO</sub> (Min./Typ.) (V)	Isolation Voltage (V <sub>ISO</sub> )	Current Transfer Ratio (Min./Typ./Max.) (%)	Price Each			
Mfr.	Mfr. Part No.				(Min.) (V)	(Typ.) (V)	(Max.) (V)				1	25	100	250
	512—FOD2741A	DIP-8	UL/CSA/BSI/VDE	0.5	2.482	2.495	2.508	70/----	5.0kV	100/----/200	1.09	.96	.74	.639
◆	512—FOD2742AR2	SOIC-8	UL	1	1.228	1.240	1.252	70/----	5.0kV	100/----/200	1.55	1.34	1.07	.935
	512—FOD2741B	DIP-8	UL/CSA/BSI/VDE	1	2.470	2.495	2.520	70/----	5.0kV	100/----/200	1.05	.91	.72	.65
◆	512—FOD2742B	SOIC-8	UL/CSA/BSI/VDE	1	2.470	2.495	2.520	70/120	2.5kV	100/140/200	1.32	1.09	.797	.689



## LED DRIVERS ◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Number of LEDs	Input Voltage (V)	Ground Current (mA)	LED On Option	Brightness Control	Driver Only	LED Current (mA)	Serial Driver	Price Each			
Mfr.	Mfr. Part No.										1	25	100	250
◆	512—FAN5646S700X	SC-70-5	1	2.7 to 5.0	0.05	00	Digital	Yes	20	No	1.06	.816	.72	.624
	512—FAN5646S701X	SC-70-5	1	2.7 to 5.0	0.05	01	Digital	Yes	20	No	1.06	.816	.72	.624
◆	512—FAN5646UC00X	WL-CSP	1	2.7 to 5.0	0.05	00	Digital	Yes	20	No	1.06	.816	.72	.624
◆	512—FAN5646UC01X	WL-CSP	1	2.7 to 5.0	0.05	01	Digital	Yes	20	No	1.06	.816	.72	.624
◆	512—FAN102MY	SOP-8	1	-0.3 to 7.0	0.01	---	PSR, PWM	No	5	No	.98	.771	.693	.604
◆	512—FAN5341UMPX	UMLP-6	4	2.7 to 5.5	---	---	Digital	Yes	25	Yes	1.34	1.15	.921	.802
◆	512—FAN5701UMP15X	UMLP-16	6	2.7 to 5.5	2.5	---	PWM	No	15	No	1.46	1.25	1.00	.873
◆	512—FAN5701UMP30X	UMLP-16	6	2.7 to 5.5	2.5	---	PWM	No	30	No	1.46	1.25	1.00	.873
◆	512—FAN5702UMP08X	UMLP-16	6	2.7 to 5.5	2.5	---	Digital	Yes	8	No	2.01	1.73	1.38	1.20



NEW AT MOUSER

Fairchild Semiconductor

Opto Components