

NEC/CEL Optocouplers



CEL California Eastern Laboratories

Applications:

Can be used as an interface circuit for various instrumentations and control equipment in the following:

- AC line/digital logic
- Twisted pair line receiver
- Digital logic/digital logic
- Telephone/telegraph line receiver

Features:

- High isolation voltage
- High current transfer ratio
- Low cost
- High speed switching

Safety Standards:

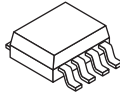
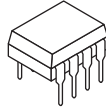
UL = UL Recognized (UL File No: E72422(S))
 UL/VDE = UL Recognized & VDE Recognized
 UL/BSI = UL Recognized & BSI Approved
 UL File No.: E72422(S) / BSI Approved No.: 7112/7420



This product is RoHS compliant.



RoHS Compliant



DARLINGTON TRANSISTOR, HIGH VCEO OPTOCOUPLED

◆ Surface Mount

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	NEC/CEL Part No.	Fig.	Package	Safety Standard	IF (mA)	V _{CEO} (V)	V _{ECO} (V)	Typical Rise/Fall t _r / t _f (μs)	Current Transfer Ratio %	Price Each				
										1	10	100	500	
DC Devices														
◆ 551-PS2533-1-A	PS2533-1-A	A	DIP-4	UL/BSI	80	350	6.0	100/100	1500 to 6500					
◆ 551-PS2732-1-A	PS2732-1-A	A	SOP-4	UL/BSI	50	300	6.0	100/100	1500 to 6500					
◆ 551-PS2832-1-A	PS2832-1-A	A	SSOP-4	UL/BSI	50	300	0.3	20/5.0	400 to 4500					
◆ 551-PS2833-1-A	PS2833-1-A	A	SSOP-4	UL/BSI	50	350	0.3	20/5.0	400 to 4500					
◆ 551-PS2833-4-A	PS2833-4-A	B	SSOP-16	UL/BSI	50	350	0.3	20/5.0	400 to 4500					
◆ 551-PS2933-1-A	PS2933-1-A	A	MiniFlat-4	UL/BSI	50	350	0.3	20/5.0	400 to 4500					

HIGH SPEED DIGITAL OPTOCOUPLED

◆ Surface Mount

For quantities of 1000 and up, call for quote.

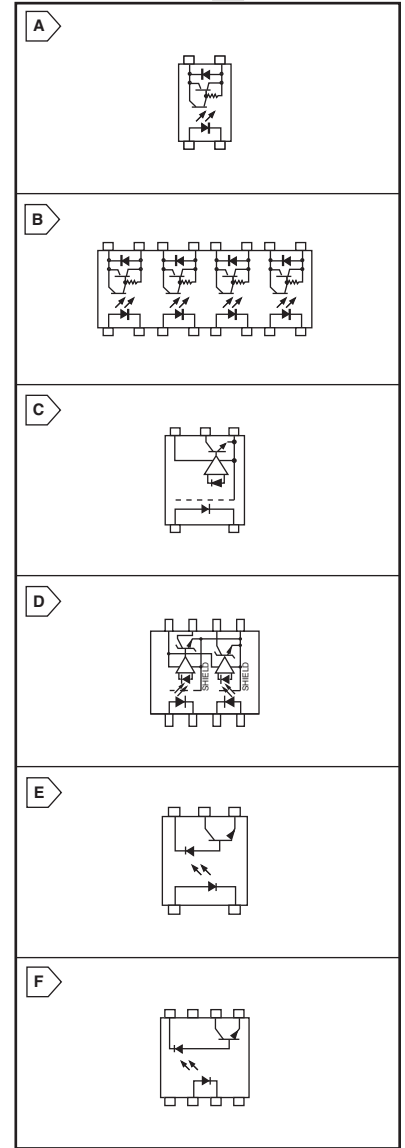
MOUSER STOCK NO.	NEC/CEL Part No.	Fig.	Package	Safety Standard	Digital Speed (Mbps)	VCC Range (V)	Isolation Voltage (VRMS)	Prop. Delay (L/H) (Typ.) (ns)	Threshold Input Curr. (Typ.) (mA)	Price Each				
										1	10	100	500	
10kV/us Minimum Noise Immunity														
◆ 551-PS9117-A	PS9117-A	C	SOP-5	UL	10	4.5 to 5.5	2500	35/40	2					
◆ 551-PS9121-AX	PS9121-AX	C	SOP-5	UL/VDE	10	2.7 to 5.5	2500	43/46	30					
◆ 551-PS9817-2-AX	PS9817-2-AX	D	SO-8	UL	10	4.5 to 5.5	2500	40/45	2.0					

HIGH SPEED ANALOG OPTOCOUPLED

◆ Surface Mount

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	NEC/CEL Part No.	Fig.	Package	Safety Standard	Analog Speed (Mbps)	Isolation Voltage (VRMS)	Prop. Delay (Typ.) (us)	Forward Current (Max.) (mA)	Current Transfer Ratio %	Price Each				
										1	10	100	500	
High Noise Immunity														
◆ 551-PS8103-A	PS8103-A	E	SOP-5	UL	0.2	2500	1	50	10 to 30					
◆ 551-PS8602L-AX	PS8602L-AX	F	DIP-8	UL	1	5000	0.5	25	15 (min.)					



LASER DIODES

NX7338BF-AA-Features:

- High output power
P_l = 110mW @ I_{sp} = 400 mA*1
- Long wavelength
λ_c = 1 310 nm

*1 Pulse Conditions: Pluse width (PW) = 10 μs, Duty = 1%

NX7538BF-AA-Features:

- High output power
P_l = 80mW @ I_{sp} = 400 mA*1
- Long wavelength
λ_c = 1 550 nm

*1 Pulse Conditions: Pluse width (PW) = 10 μs, Duty = 1%



RoHS Compliant

* Multiple Quantum Well structured Fabry-Perot Laser Diode Coaxial Module

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	NEC/CEL Part No.	Package	Fiber Type	Price Each			
				1	2	5	10
551-NX7338BF-AA-AZ	NX7338BF-AA-AZ	Laser Diode Module 1 310NM 110m W	Single Mode				
551-NX7538BF-AA-AZ	NX7538BF-AA-AZ	Laser Diode Module 1 550NM 80mW	Single Mode				

PHOTO DIODES

Features:

- **Small Dark Current:**
I_o = 500 nA
- **Small Terminal Capacitance:**
C_T = 0.35 pF at 0.9 V_{BR}
- **High Quantum Efficiency:**
μ = 90% at λ = 1310 nm, M = 1
μ = 77% at λ = 1550 nm, M = 1
- **High Speed Response:**
f_c = 2.5 GHz at 0.9 V_{BR}
- **Detecting Area Size:**
ø30 μm
- **Coaxial Module with Single Mode Fiber (SM-9/125)**



RoHS Compliant

APD In a Coaxial Package for Fiber Optic Communication and OTDR Applications

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	NEC/CEL Part No.	Package	Fiber Type	Price Each			
				1	2	5	10
551-NR8300FP-CC-AZ	NR8300FP-CC-AZ	30um InGaAs Avalanche Photo Diode	Single Mode				