

6 Pin DIL & SMD Optocouplers

Transistor Output - Base Connected

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)					
4N25	Single channel Optocoupler with a Phototransistor Output	20	7.5(pk) 5.3(rms)	50mA	1.4	30	50	0.5($I_F=50\text{mA}$) ($I_C=2\text{mA}$)					
4N26													
4N27													
4N28													
4N35		10							0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)				
4N36		100											
4N37													
4N38													
4N38A		20 ($V_{CE}=1\text{V}$)								80	50 ($V_{CE}=60\text{V}$)	1.0($I_F=20\text{mA}$) ($I_C=4\text{mA}$)	
CNX72A		40-160 ($V_{CE}=0.4\text{V}$)								30	50	0.4($I_F=10\text{mA}$) ($I_C=4\text{mA}$)	
CNX83AG		40 ($V_{CE}=0.4\text{V}$)								50			
CNY17-1		40-80 ($V_{CE}=5\text{V}$)								70	0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)		
CNY17-2		63-125 ($V_{CE}=5\text{V}$)											
CNY17-3		100-200 ($V_{CE}=5\text{V}$)											
CNY17-4		160-320 ($V_{CE}=5\text{V}$)											
CNY17-5		200-400 ($V_{CE}=5\text{V}$)											
CNY75A		100-200 ($V_{CE}=5\text{V}$)								90	150 ($V_{CE}=20\text{V}$)	0.3($I_F=10\text{mA}$) ($I_C=1\text{mA}$)	
CNY75B		160-320 ($V_{CE}=5\text{V}$)											
CNY75C		200-400 ($V_{CE}=5\text{V}$)								32	200 ($V_{CE}=20\text{V}$)		
CQY80		50 ($V_{CE}=5\text{V}$)											
H11A1		50								30	0.4($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)		
H11A2		20											
H11A3		20											
H11A4		10											
H11A5		30											
H11AV1		100-300										70	0.4($I_F=20\text{mA}$) ($I_C=2\text{mA}$)
H11AV2		50											
H11AV3		20										50	0.4($I_F=16\text{mA}$) ($I_C=2\text{mA}$)
IL1		20-300											
IL2		100-500											
IL5		50-400											
IL74		12.5 ($I_F=16\text{mA}$)											
IS1		20										50	0.4($I_F=10\text{mA}$) ($I_C=2\text{mA}$)
IS2		100											
IS201		75/10 ($I_F=10\text{mA}/1\text{mA}$)										70	0.4($I_F=10\text{mA}$) ($I_C=2\text{mA}$)
IS202		125-250/30 ($I_F=10\text{mA}/1\text{mA}$)											
IS203		225-450/30 ($I_F=10\text{mA}/1\text{mA}$)											
IS204		200-400 ($I_F=10\text{mA}/1\text{mA}$)											
IS204-1		/50 ¹										100	0.4($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)
IS204-2		50/2											
IS204-3	70 ² /100 ¹												
IS5	50-400	70	0.4($I_F=16\text{mA}$) ($I_C=2\text{mA}$)										
IS74	12.5 ($I_F=16\text{mA}$)												
MCT2	20	50	0.4($I_F=16\text{mA}$) ($I_C=2\text{mA}$)										
MCT2E	50												
MCT210	50 ($I_F=3.2-32\text{mA}$) ($V_{CE}=0.4\text{V}$)	30	50	0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)									
MCT2200	20 ($V_{CE}=5\text{V}$)												
MCT2201	100 ($V_{CE}=5\text{V}$)												

Note 1 Test Condition: $I_F=1\text{mA}$, $V_{CE}=0.4\text{V}$

Note 2 Test Condition: $I_F=0.5\text{mA}$, $V_{CE}=0.4\text{V}$



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Transistor Output - Base Connected									
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)	
MCT2202	Single channel Optocoupler with a Phototransistor Output	63-125 ($V_{CE} = 5\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	30	50	0.4($I_F = 10\text{mA}$) ($I_C = 2.5\text{mA}$)	
MCT270		50						0.4($I_F = 16\text{mA}$) ($I_C = 2\text{mA}$)	
MCT271		45-90							
MCT272		75-150							
SFH600-0		40-80 ($V_{CE} = 5\text{V}$)				70		0.4($I_F = 10\text{mA}$) ($I_C = 2.5\text{mA}$)	
SFH600-1		63-125 ($V_{CE} = 5\text{V}$)							
SFH600-2		100-200 ($V_{CE} = 5\text{V}$)							
SFH600-3		160-320 ($V_{CE} = 5\text{V}$)							
SFH600-4		200-400 ($V_{CE} = 5\text{V}$)							
SFH601-1		40-80 ($V_{CE} = 5\text{V}$)				100			
SFH601-2		63-125 ($V_{CE} = 5\text{V}$)							
SFH601-3		100-200 ($V_{CE} = 5\text{V}$)							
SFH601-4		160-320 ($V_{CE} = 5\text{V}$)							
SFH609-1		40-80 ($V_{CE} = 5\text{V}$)				90			
SFH609-2		63-125 ($V_{CE} = 5\text{V}$)							
SFH609-3		100-200 ($V_{CE} = 5\text{V}$)							
SFH609-4		160-320 ($V_{CE} = 5\text{V}$)							
TIL111		20 ($I_F = 16\text{mA}$) ($V_{CE} = 0.4\text{V}$)				30			0.4($I_F = 16\text{mA}$) ($I_C = 2\text{mA}$)
TIL114									0.4($I_F = 15\text{mA}$) ($I_C = 2.2\text{mA}$)
TIL116									20
TIL117	50								

Transistor Output - Non Base								
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
CNX62A	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	40 ($V_{CE} = 0.4\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	50	100	0.4($I_F = 10\text{mA}$) ($I_C = 4\text{mA}$)
CNX82A		40-80 ($V_{CE} = 5\text{V}$)						0.4($I_F = 10\text{mA}$) ($I_C = 2.5\text{mA}$)
CNY17F-1		63-125 ($V_{CE} = 5\text{V}$)						
CNY17F-2		100-200 ($V_{CE} = 5\text{V}$)						
CNY17F-3		160-320 ($V_{CE} = 5\text{V}$)				70		
CNY17F-4		200-400 ($V_{CE} = 5\text{V}$)						
CNY17F-5		100				50		0.4($I_F = 10\text{mA}$) ($I_C = 0.5\text{mA}$)
IS205		/50 ¹						
IS205-1		50/2						70
IS205-2		70 ² /100 ¹						
IS205-3		50				50		0.4($I_F = 10\text{mA}$) ($I_C = 0.5\text{mA}$)
IS206		50-80						
MOC8101		73-117						0.4($I_F = 5\text{mA}$) ($I_C = 0.5\text{mA}$)
MOC8102								

Note 1 Test Condition: $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$

Note 2 Test Condition: $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

 DRAWINGS OVERLEAF

6 Pin DIL & SMD Optocouplers cont.

Transistor Output - Non Base

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
MOC8103	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	103-173	7.5(pk) 5.3(rms)	50mA	1.4	50	100	0.4($I_F = 5\text{mA}$) ($I_C = 0.5\text{mA}$)
MOC8104		160-256						
MOC8105		65-133						
MOC8106		50-150						
MOC8107		100-300						
MOC8108		250-600						
MOC8111		20						0.4($I_F = 5\text{mA}$) ($I_C = 1\text{mA}$)
MOC8112		50						
MOC8113		100						

AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = \pm 10\text{mA}$ $I_C = 0.5\text{mA}$ Max (V)
CNY35	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	10	7.5(pk) 5.3(rms)	$\pm 50\text{mA}$	1.4	30	50	0.4
H11AA1		20						
H11AA2		10						
H11AA3		50						
H11AA4		100						
IS604		50						
IS733		20-300 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)				35	100 ($V_{CE} = 20\text{V}$)	0.2($I_F = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)

Darlington Output - Base Connected

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 50\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 8\text{mA}$ $I_C = 2\text{mA}$ Max (V)	
4N29	Single channel Optocoupler with a Photo-Darlington Transistor	100	7.5(pk) 5.3(rms)	60mA	1.5	30	100	1	
4N30								50	1.2
4N31									1
4N32		500						1.0($I_F = 1\text{mA}$) ($I_C = 1\text{mA}$)	
4N33									500 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)
H11B1		200 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)						1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)	
H11B2		100 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)							
H11B3		100 ($V_{CE} = 5\text{V}$)						1.0($I_F = 1\text{mA}$) ($I_C = 2\text{mA}$)	
MCA2230		500 ($V_{CE} = 5\text{V}$)						1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)	
MCA2231									500 ($V_{CE} = 5\text{V}$)
MCA2255		100 ($V_{CE} = 5\text{V}$)						1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)	
MCA255									55
MCA230									30
MCA231		500 ($V_{CE} = 5\text{V}$)						1.0($I_F = 1\text{mA}$) ($I_C = 1\text{mA}$)	
MOC8080									55
TIL113		500 ($V_{CE} = 1\text{V}$)						1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)	

6 Pin DIL & SMD Optocouplers

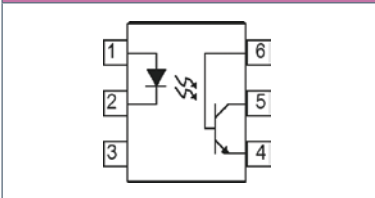
Darlington Output - Non Base

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 2\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
ISPD60	Single channel Optocoupler with a Photo-Darlington Transistor with base lead not connected for improved noise immunity	100	7.5(pk) 5.3(rms)	50mA	1.4	35 ($I_C = 0.1\text{mA}$)	100	1.0 ($I_F = 10\text{mA}$) ($I_C = 10\text{mA}$)
ISPD61		500						
ISPD62		1000						
ISPD63		100						
ISPD64		500						
ISPD65		1000						
MOC8020		500 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8021		1000 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8030		300 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8050		500 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
TIL119		300 ($I_F = 10\text{mA}$) ($V_{CE} = 1\text{V}$)						

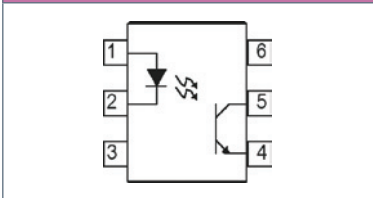
Darlington Output - Base Connected High Voltage

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
H11G1	Single channel Optocoupler with a Photo-Darlington Transistor with a high operating voltage	1000 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)	7.5(pk) 5.3(rms)	50	1.4	100	100 ($V_{CE} = 80\text{V}$)	1.0 ($I_F = 1\text{mA}$) ($I_C = 1\text{mA}$)
H11G2						80	100 ($V_{CE} = 60\text{V}$)	
H11G3		200 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)				100 ($V_{CE} = 30\text{V}$)	1.2 ($I_F = 20\text{mA}$) ($I_C = 50\text{mA}$)	
IS4N45		250 ($I_F = 1\text{mA}$) ($V_{CE} = 1\text{V}$)				100 ($V_{CE} = 55\text{V}$)	1.0 ($I_F = 1\text{mA}$) ($I_{OL} = 2.5\text{mA}$)	
IS4N46		500 ($I_F = 1\text{mA}$) ($V_{CE} = 1\text{V}$)					1.0 ($I_F = 0.5\text{mA}$) ($I_{OL} = 1.75\text{mA}$)	
IS660		1000 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)				200	1000 ($V_{CE} = 200\text{V}$)	1.2 ($I_F = 20\text{mA}$) ($I_C = 100\text{mA}$)
IS661						300		
IS725								

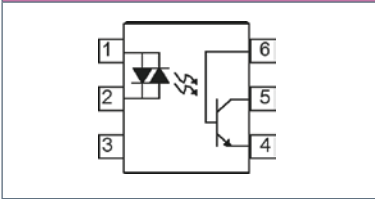
Transistor Output



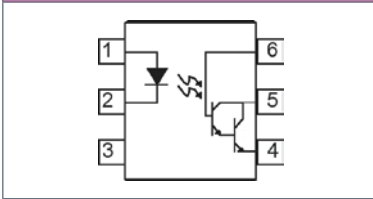
Transistor Output - Non Base



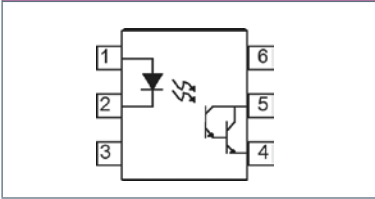
AC Input



Darlington Output



Darlington Output - Non Base



Darlington Output - High Voltage

