

ELECTRO-OPTICAL CHARACTERISTICS (T_a=25°C)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I FORWARD VOLTAGE	V _F	I _F =20mA	-	1.2	1.4	V
PEAK FORWARD VOLTAGE	V _{FM}	I _{FM} =0.5A	-	-	3.5	V
REVERSE CURRENT	I _R	V _R =4V	-	-	10	μA
TERMINAL CAPACITANCE	C _t	V=0, f=1kHz	-	30	-	pF
O OPERATING SUPPLY VOLTAGE	V _{CC}		4.5	-	17	V
LOW LEVEL OUTPUT VOLTAGE	V _{OL}	I _{OL} =16mA, V _{CC} =5V, I _F =0	-	0.15	0.4	V
HIGH LEVEL OUTPUT VOLTAGE	V _{OH}	V _{CC} =5V, I _F =1mA	3.5	-	-	V
LOW LEVEL SUPPLY CURRENT	I _{CC}	V _{CC} =5V, I _F =0	-	1.7	3.8	mA
HIGH LEVEL SUPPLY CURRENT	I _{CC} H	V _{CC} =5V, I _F =1mA	-	0.7	2.2	mA
T 'HIGH->LOW' THRESHOLD INPUT CURRENT	I _{FHL}	V _{CC} =5V, R _L =280 ohms	0.1	0.4	-	mA
'LOW->HIGH' THRESHOLD INPUT CURRENT	I _{FHH}	V _{CC} =5V, R _L =280 ohms	-	0.5	1.0	mA
HYSTERESIS	I _{FHL} / I _{FHH}	V _{CC} =5V, R _L =280 ohms	-	0.7	-	-
ISOLATION RESISTANCE	R _{ISO}	DC5000V	5x10 ¹⁰	10 ¹¹	-	ohm
R 'HIGH->LOW' PROPAGATION DELAY TIME	t _{PHL}	V _{CC} =5V, I _F =1mA, R _L =280 ohm	-	5	15	μS
'LOW->HIGH' PROPAGATION DELAY TIME	t _{PLH}	V _{CC} =5V, I _F =1mA, R _L =280 ohm	-	3	9	μS
FALL TIME	t _f	V _{CC} =5V, I _F =1mA, R _L =280 ohm	-	0.05	0.5	μS
RISE TIME	t _r	V _{CC} =5V, I _F =1mA, R _L =280 ohm	-	0.1	0.5	μS

I=INPUT, O=OUTPUT, T=TRANSFER CHARACTERISTICS, R=RESPONSE TIME.

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

PARAMETER	SYMBOL	MAX	UNITS
I FORWARD CURRENT	I _F	50	mA
PEAK FORWARD CURRENT	I _{FM}	1	A
REVERSE VOLTAGE	V _R	6	V
POWER DISSIPATION	P _D	70	mW
O SUPPLY VOLTAGE	V _{CC}	-0.5 TO 17	V
OUTPUT CURRENT	I _O	50	mA
POWER DISSIPATION	P _D	150	mW
TOTAL POWER DISSIPATION	P _{TOT}	170	mW
ISOLATION VOLTAGE 1 MIN.	V _{ISO}	5000	V _{RMS}
OPERATING TEMP.	T _{opr}	-25 TO +85	°C
STORAGE TEMP.	T _{stg}	-40 TO +125	°C
SOLDERING TEMP.	T _{sol}	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

B

OCP-PCP116-TR

SIX PIN SINGLE CHANNEL SURFACE MOUNT
PHOTO IC PHOTOCOUPLER.

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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SCALE: N/A