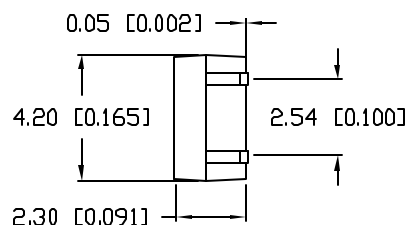
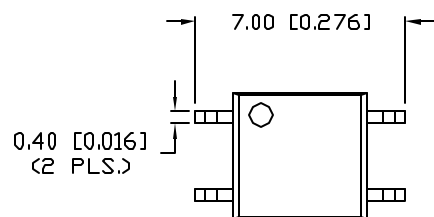


UNCONTROLLED DOCUMENT



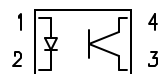
PART NUMBER TABLE	
PART= /X	CTR (%)
/A	50 TO 150
/B	20 TO 400

PART NUMBER
OCP-PCTMF114/X-TRREV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	5.16.07

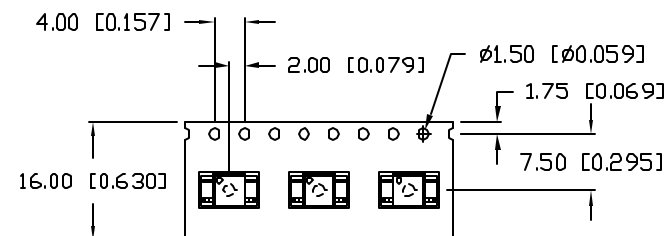
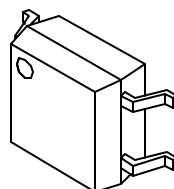
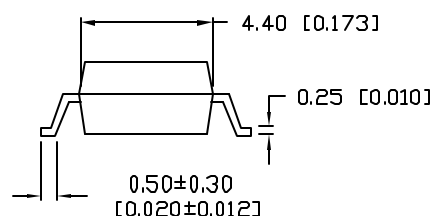
CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

TOP VIEW



NOTES:

1. ANODE/CATHODE
2. CATHODE/ANODE
3. EMITTER
4. COLLECTOR



TAPE FEED DIRECTION →

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
1 FORWARD VOLTAGE	V _f	I _f =±20mA	-	1.2	1.4	V
TERMINAL CAPACITANCE	C _t	V=0, f=1kHz	-	30	250	pF
0 COLLECTOR DARK CURRENT	I _{ceo}	V _{ce} =20V, I _f =0	-	-	10 ⁻⁷	A
T CURRENT TRANSFER RATIO	CRT	I _f =±1mA, V _{ce} =5V	20	-	400	%
COLLECTOR-EMITTER SATURATION VOLTAGE	V _{ce(sat)}	I _f =±20mA, I _c =1mA	-	0.1	0.3	V
ISOLATION RESISTANCE	R _{iso}	DC500V	5x10 ¹⁰	10 ¹¹	-	ohm
FLOATING CAPACITANCE	C _f	V=0, f=1MHz	-	0.6	1.0	pF
RESPONSE TIME (RISE)	t _r	V _{ce} =2V, I _c =2mA, R _L =100ohm	-	4	18	μS
RESPONSE TIME (FALL)	t _f	V _{ce} =2V, I _c =2mA, R _L =100ohm	-	3	18	μS

I=INPUT, 0=OUTPUT, T=TRANSFER CHARACTERISTICS.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	MAX	UNITS
1 FORWARD CURRENT	I _f	±50	mA
PEAK FORWARD CURRENT	I _{FM}	±1	A
POWER DISSIPATION	P _d	70	mW
0 COLLECTOR-EMITTER VOLTAGE	V _{ceo}	60	V
EMITTER-COLLECTOR VOLTAGE	V _{eco}	6	V
COLLECTOR CURRENT	I _c	50	mA
COLLECTOR POWER DISSIPATION	P _c	150	mW
TOTAL POWER DISSIPATION	P _{tot}	170	mW
ISOLATION VOLTAGE 1 MIN.	V _{iso}	3750	V _{RMS}
OPERATING TEMP.	T _{opr}	-30 TO +100	°C
STORAGE TEMP.	T _{stg}	-55 TO +125	°C
SOLDERING TEMP.	T _{sol}	+260	°C
2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, 0=OUTPUT.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±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.

A

PART NUMBER

OCP-PCTMF114/X-TR

4 PIN SURFACE MOUNT SINGLE CHANNEL PHOTOCOUPLER,
MINI FLAT PACKAGE,
TRANSISTOR OUTPUT, NO EXTERNAL BASE CONNECTION.

CONFIDENTIAL INFORMATION

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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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PAGE: 1 OF 1

SCALE: N/A