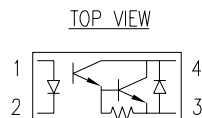
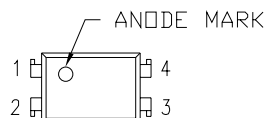


UNCONTROLLED DOCUMENT



NOTES:

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

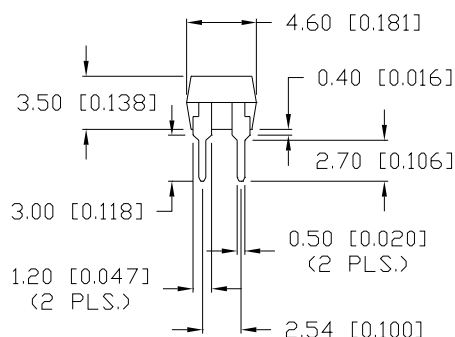
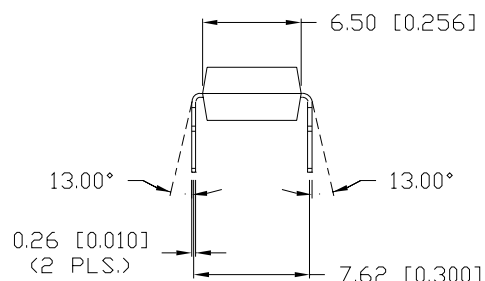
PART NUMBER
OCP-PCD114/X

REV.

REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

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



PART NUMBER TABLE	
PART=	CTR (%)
/X	
/A	600 TO 2000
/B	1500 TO 4000
/C	3000 TO 6000
/D	5000 TO 9000
/E	600 TO 9000

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)				
	PARAMETER	SYMBOL	MAX	UNITS
I	FORWARD CURRENT	If	50	mA
	PEAK FORWARD CURRENT	IfM	1	A
	REVERSE VOLTAGE	Vr	6	V
	POWER DISSIPATION	Pd	70	mW
O	COLLECTOR-EMITTER VOLTAGE	Vceo	300	V
	EMITTER-COLLECTOR VOLTAGE	Veco	0.1	V
	COLLECTOR CURRENT	Ic	150	mA
	COLLECTOR POWER DISSIPATION	Pc	200	mW
	TOTAL POWER DISSIPATION	Ptot	200	mW
	ISOLATION VOLTAGE 1 MIN.	Viso	5000	VRMS
	OPERATING TEMP.	Topr	- 30 TO + 100	°C
	STORAGE TEMP.	Tstg	- 55 TO + 125	°C
	SOLDERING TEMP.	Tsol	+ 260	°C
	2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)						
	PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX UNITS
I	FORWARD VOLTAGE	Vf	If=20mA	-	1.2	1.4 V
	PEAK FORWARD VOLTAGE	VfM	IfM=0.5A	-	-	3.5 V
	REVERSE CURRENT	Ir	Vr=4V	-	-	10 µA
	TERMINAL CAPACITANCE	Ct	V=0, f=1kHz	-	30	- pF
O	COLLECTOR DARK CURRENT	IcEO	Vce=200V, If=0	-	-	10 ⁻⁶ A
T	CURRENT TRANSFER RATIO	CRT	If=1mA, Vce=2V	600	-	9000 %
	COLLECTOR-EMITTER SATURATION VOLTAGE	VCE(sat)	If=20mA, Ic=5mA	-	-	1.5 V
	ISOLATION RESISTANCE	Riso	DC500V	5x10 ¹⁰	-	- ohm
	FLOATING CAPACITANCE	Cf	V=0, f=1MHz	-	0.6	1.0 pF
	CUT-OFF FREQUENCY	fc	Vce=5V, Ic=2mA, RL=100ohm	-	7	- kHz
	RESPONSE TIME (RISE)	tr	Vce=2V, Ic=20mA, RL=100ohm	-	60	300 µS
	RESPONSE TIME (FALL)	tf	Vce=2V, Ic=20mA, RL=100ohm	-	50	250 µS

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

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

REV.

PART NUMBER
OCP-PCD114/X

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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

CK/DU

FOUR PIN DIP SINGLE CHANNEL PHOTOCOUPLER,
PHOTODARLINGTON OUTPUT, NO EXTERNAL BASE CONNECTION.