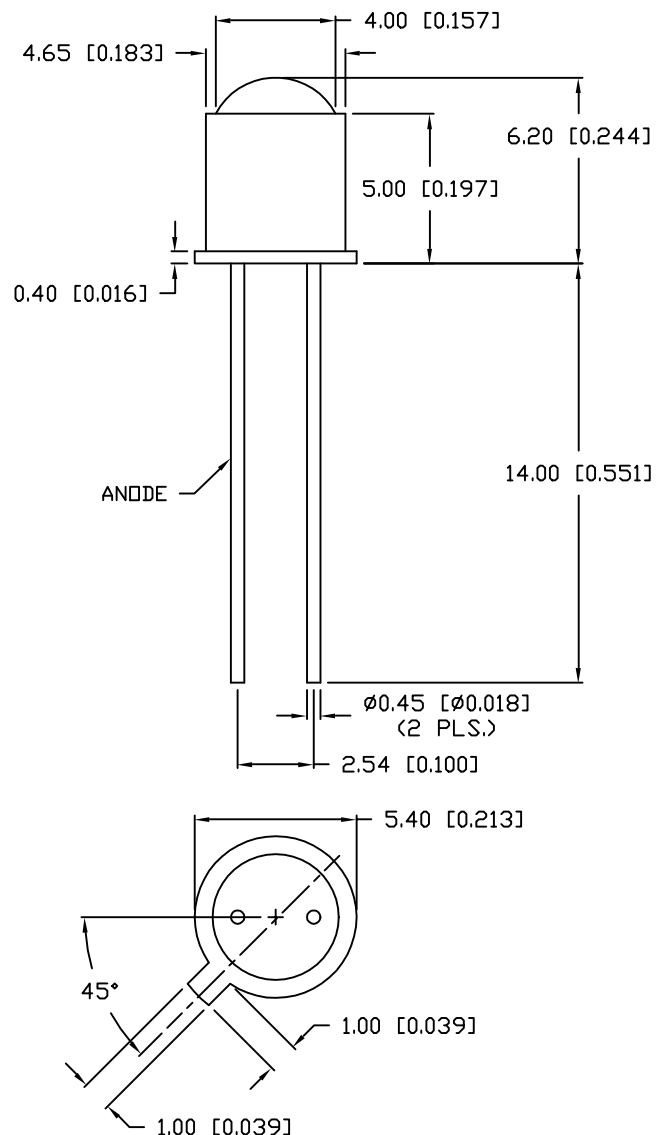


UNCONTROLLED DOCUMENT

PART NUMBER
OED-SP-1KL

REV.

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10607	4-4-00

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$

PARAMETER	SYMBOL	TEST CONDITION	TYP	MAX	UNIT
OPEN CIRCUIT VOLTAGE	V_{OC}	$E_e=0.5\text{mw}/\text{cm}^2$	0.40		V
SHORT CIRCUIT CURRENT	I_{SC}	$E_e=0.5\text{mw}/\text{cm}^2$	35		μA
DARK CURRENT	I_D	$V_r=10\text{V}$ $E_e=0.5\text{mw}/\text{cm}^2$		100	nA
TERMINAL CAPACITANCE	C_T	$V=0\text{V}$, $F=1\text{MHz}$	50		pF
RESPONSE TIME	T_R/T_F	$V_r=10\text{V}$, $R_L=1000\Omega$	6/6		nS
SPECTRAL SENSITIVITY	λ		450~1050		nm
PEAK WAVELENGTH	λ_P		900		nm
HALF ANGLE	$\Delta\theta$		± 15		DEG
LENS COLOR	CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
REVERSE VOLTAGE	20	V
POWER DISSIPATION	20	mW
OPERATING TEMP.	-25 TO +80	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +80	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

*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.

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TO-18 PHOTODIODE, CLEAR GLASS LENS.

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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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