

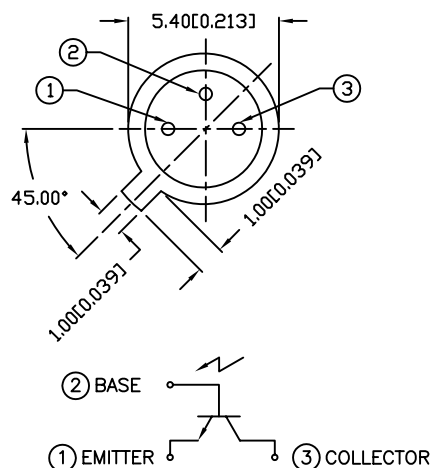
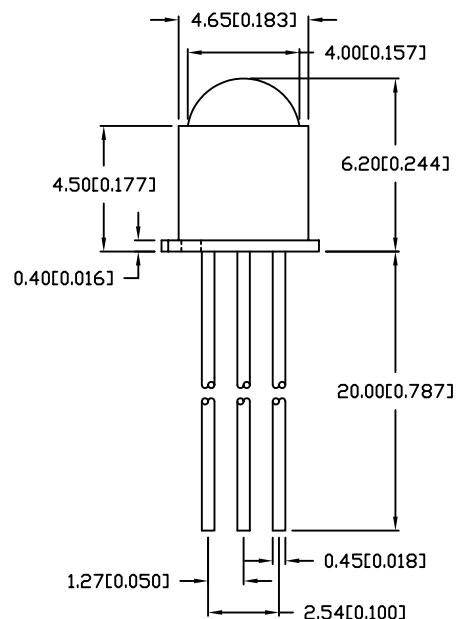
DATE

REVISIONS

REV

DRAWING NUMBER
OED-ST-1KL3B

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	I_{ceo}	$V_{ceo} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$			100	nA
COLLECTOR LIGHT CURRENT	I_c	$V_{ce} = 5\text{V}$ $E_e = 0.5\text{mw/cm}^2$		5.0		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce}(\text{sat})$	$I_c = 0.2\text{mA}$ $E_e = 0.5\text{mw/cm}^2$			0.4	V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$				
RISING TIME	T_r	$I_c = 1\text{mA}$		3.2		μS
FALLING TIME	T_f	$R_l = 100\Omega$		4.8		μS
PEAK WAVELENGTH	λ_p			880		nm
ANGULAR RESPONSE	$\Delta\theta$			± 6		DEG
LENS COLOR:	CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE (V_{ceo})	40	V
EMITTER-COLLECTOR VOLTAGE (V_{eco})	6	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-25 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-30 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

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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DATE: 12-22-97

DWN:

CHK'D:

APPD:

SCALE: N/A

 TO-18 HERMETICALLY SEALED,
PHOTOTRANSISTOR, WATER CLEAR LENS.

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UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010''$)

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