

DATE

REVISIONS

REV

DRAWING NUMBER

OED-ST509F3L60

REV

UNCONTROLLED DOCUMENT

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

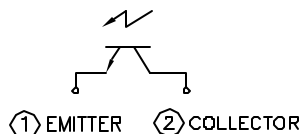
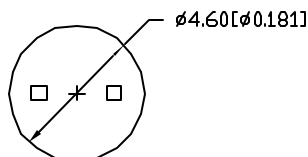
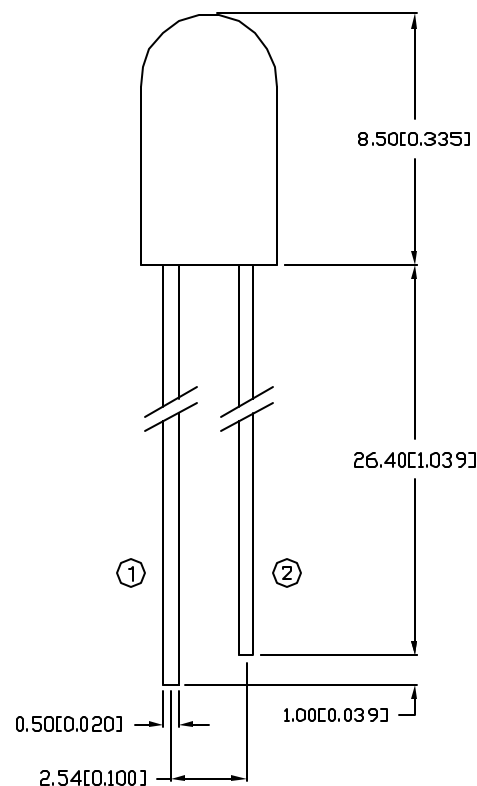
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	I_{ceo}	$V_{ceo} = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$			100	nA
COLLECTOR LIGHT CURRENT	I_c	$V_{ce} = 5\text{V}$ $E_e = 0.5\text{mw/cm}^2$	0.5	2.5		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce(sat)}$	$I_c = 0.2\text{mA}$ $E_e = 0.5\text{mw/cm}^2$		0.8		V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$				
RISING TIME	T_r	$I_c = 1\text{mA}$		15		μS
FALLING TIME	T_f	$R_L = 100\Omega$		15		μS
PEAK WAVELENGTH	λ_p			900		nm
ANGULAR RESPONSE	$\Delta\theta$			± 30		DEG
LENS COLOR:	CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE (V_{ceo})	30	V
EMITTER-COLLECTOR VOLTAGE (V_{eco})	5	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 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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UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010''$)

a

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DATE: 12-22-97	DWN:	CHK'D:	APPD:
SCALE: N/A			

 T-1 3/4 (5mm) PHOTOTRANSISTOR,
WATER CLEAR LENS, WITH DAYLIGHT FILTER.

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