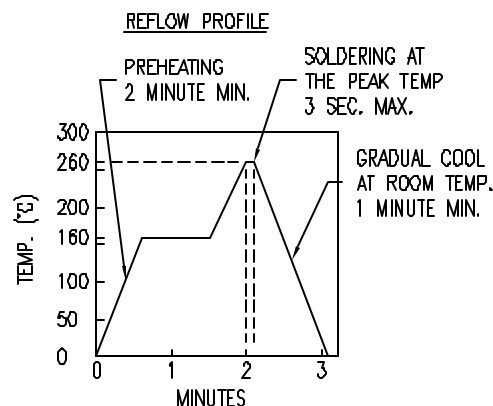
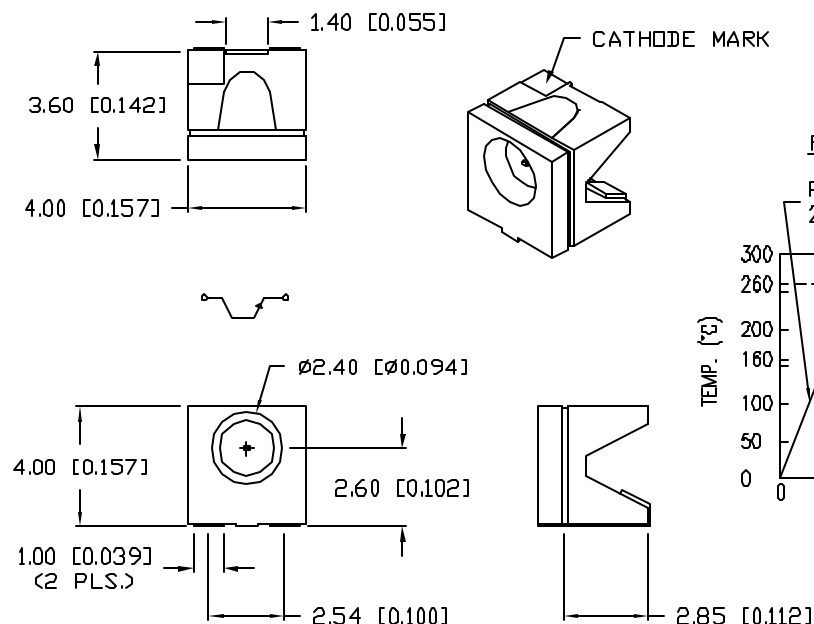


ELECTRO-OPTICAL CHARACTERISTICS $T_A = 25^\circ\text{C}$

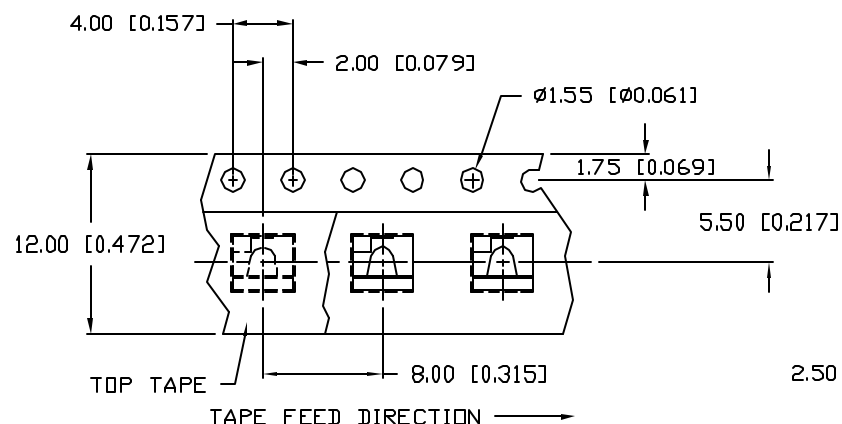
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	I_{ced}	$V_{ce} = 10\text{V}$ $E_e = 0\text{mw/cm}^2$			100	nA
COLLECTOR LIGHT CURRENT	I_c	$V_{ce} = 5\text{V}$ $E_e = 1.0\text{mw/cm}^2$		0.3		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce(sat)}$	$I_c = 0.5\text{mA}$ $E_e = 1\text{mw/cm}^2$		0.8		V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$ $I_c = 1\text{mA}$ $R_l = 100\Omega$				
RISING TIME	T_r			3.0		μS
FALLING TIME	T_f			3.0		μS
SPECTRAL SENSITIVITY	λ			450~1100		nm
PEAK WAVELENGTH	λ_p			940		nm
ANGULAR RESPONSE	$\Delta\theta$			± 45		DEG
LENS COLOR:				BLUE TRANSPARENT		

LIMITS OF SAFE OPERATION AT 25°C

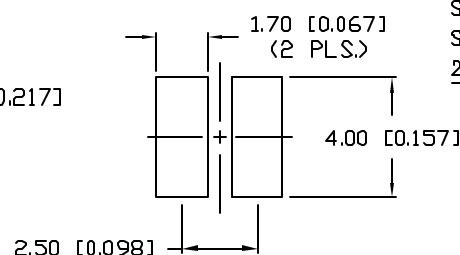
PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE	30	V
EMITTER-COLLECTOR VOLTAGE	5	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY	5 SEC. MAX	

NOTES:

- 500 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



RECOMMENDED SOLDER PAD LAYOUT



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005), LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.=+DECIMAL PRECISION -0.00, MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

OED-STR44B90-TR

RIGHT ANGLE BOOMERANG SURFACE MOUNT
PHOTO TRANSISTOR, BLUE TRANSPARENT 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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