

DATE

REVISIONS

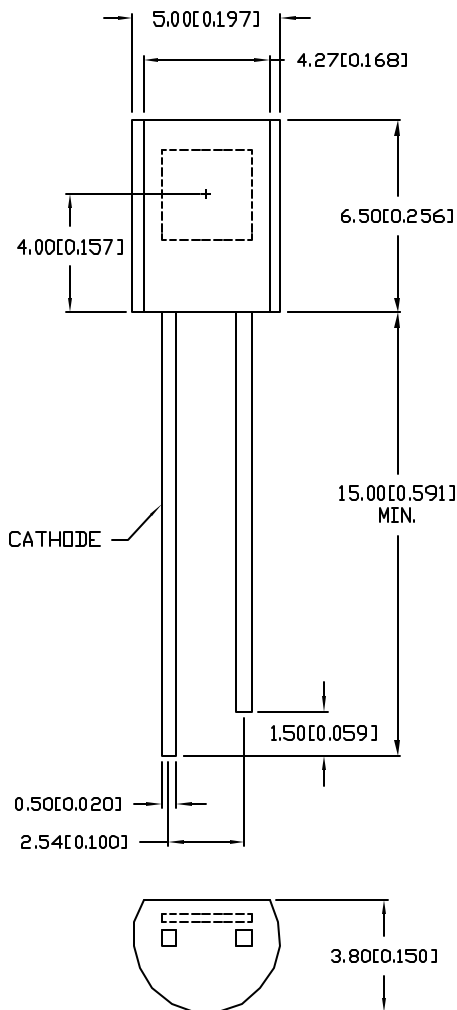
REV

DRAWING NUMBER

DED-SPR472L140

REV

REPLACED PART: DED-SP-57FS

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
OPEN CIRCUIT VOLTAGE	$V_{oc}$	$E_e = 0.5\text{mw/cm}^2$		0.35		V
SHORT CIRCUIT CURRENT	$I_{sc}$	$E_e = 0.5\text{mw/cm}^2$		80		$\mu\text{A}$
DARK CURRENT	$I_d$	$V_r = 10\text{V}$ $E_e = 0.5\text{mw/cm}^2$			30	nA
TERMINAL CAPACITANCE	$C_t$	$V_r = 3\text{V}$ , $F = 1\text{MHz}$		25		pF
RESPONSE TIME	$T_r/T_f$	$V_r = 10\text{V}$ , $R_L = 1000\Omega$		50/50		nS
SPECTRAL SENSITIVITY	$\lambda$			700~1000		nm
PEAK WAVELENGTH	$\lambda_p$			940		nm
HALF ANGLE	$\Delta\theta$			$\pm 70$		DEG
LENS COLOR:	BLACK					

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

PARAMETER	MAX	UNITS
REVERSE VOLTAGE	20	V
POWER DISSIPATION	150	mW
OPERATING TEMP.	-20 TO +70	$^\circ\text{C}$
STORAGE TEMP.	-25 TO +80	$^\circ\text{C}$
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.

**LUMEX**  
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DATE: 12-19-97	DWN:	CHK'D:	APPD:
SCALE: N/A			

 T4 x 7mm RIGHT ANGLE FLAT SURFACE,  
PHOTODIODE.

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

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