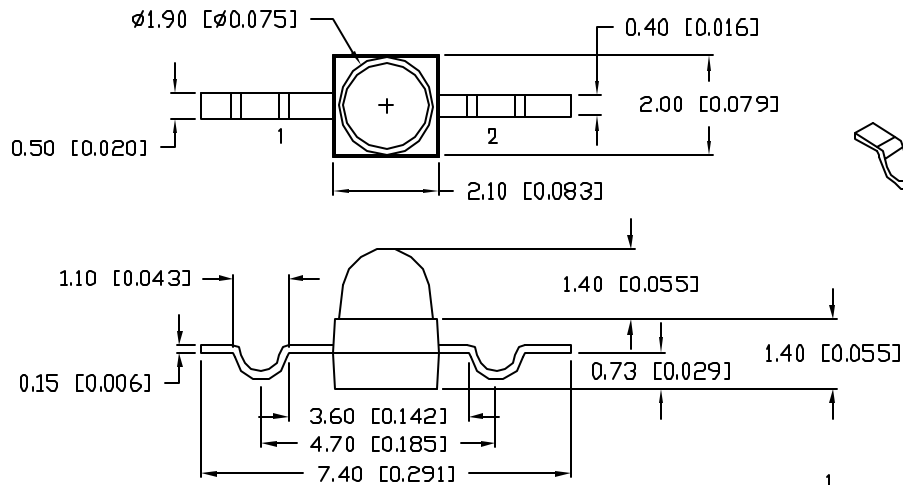
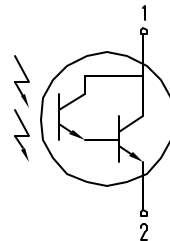
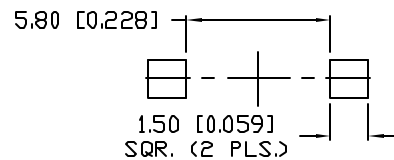
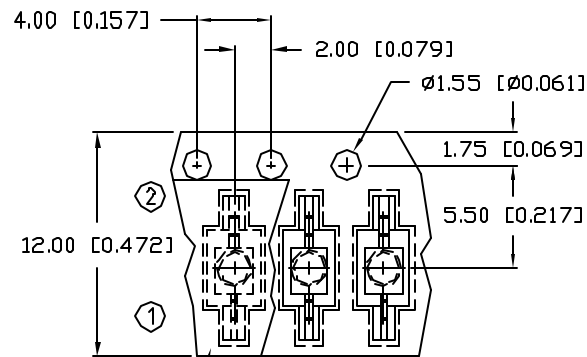


RECOMMENDED SOLDER PAD LAYOUT



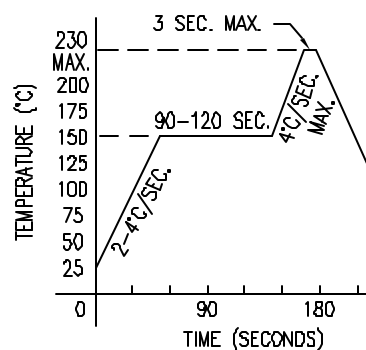
NOTES:

1. COLLECTOR.
2. EMITTER.



TOP TAPE
TAPE FEED DIRECTION →

REFLOW PROFILE

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
COLLECTOR-EMITTER BREAKDOWN VOLTAGE	15			V	$I_c=100\mu\text{A}$ $E_e=0\text{mW}/\text{cm}^2$
EMITTER-COLLECTOR BREAKDOWN VOLTAGE	5			V	$I_e=10\mu\text{A}$ $E_e=0\text{mW}/\text{cm}^2$
COLLECTOR-EMITTER SATURATION VOLTAGE			1	V	$I_c=15\text{mA}$ $E_e=1\text{mW}/\text{cm}^2$
RISE TIME		40		μS	$V_{ce}=5\text{V}$, $I_c=10\text{mA}$
FALL TIME		60		μS	$R_L=100\Omega$
COLLECTOR DARK CURRENT			1000	nA	$E_e=0\text{mW}/\text{cm}^2$ $V_{ce}=10\text{V}$
ON STATE COLLECTOR CURRENT @ $V_{ce}=5\text{V}$		0.15		mA	$E_e=0.01\text{mW}/\text{cm}^2$
WAVELENGTH OF PEAK SENSITIVITY		860		nm	$E_e=1\text{mW}/\text{cm}^2$
RANGE OF SPECTRAL BANDWIDTH		400~1200		nm	
EPOXY LENS FINISH: WATER CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE	15	V
EMITTER-COLLECTOR VOLTAGE	5	V
COLLECTOR CURRENT	20	mA
OPERATING TEMPERATURE	-25 TO +85	$^\circ\text{C}$
STORAGE TEMPERATURE	-40 TO +85	$^\circ\text{C}$

*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-PTA2127-TR21

1.9mm ROUND PHOTODARLINGTON TRANSISTOR,
AXIAL YOKE LEAD, TAPE AND REEL.

CONFIDENTIAL INFORMATION

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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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SCALE: N/A