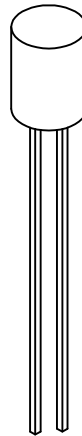
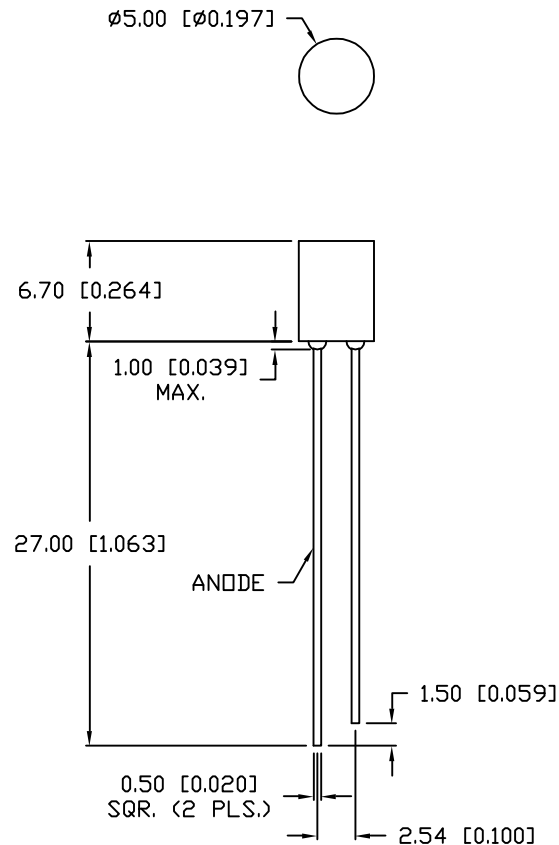


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REV.

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	
SPECTRAL BANDWIDTH		45		nm	
FORWARD VOLTAGE		1.2	1.5	V_f	$I_f=20\text{mA}$
		1.4	1.8	V_f	$I_f=100\text{mA}^*$
		2.6	4.0	V_f	$I_f=1\text{mA}^*$
REVERSE VOLTAGE	5.0		8.0	V_r	$I_r=10\mu\text{A}$
RADIANT INTENSITY		2		mW/SR	$I_f=20\text{mA}$
		11		mW/SR	$I_f=100\text{mA}^*$
		110		mW/SR	$I_f=1\text{mA}^*$
HALF ANGLE		± 42.5		degrees	
EPOXY LENS FINISH: WATER CLEAR					

LIMITS OF SAFE OPERATION AT 25°C PERCHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
STEADY CURRENT	100	mA
POWER DISSIPATION	150	mW
DERATE FROM 25°C	-1.2	mW/ $^\circ\text{C}$
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +100	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0MMFROMBODY		5 SEC. MAX

* PULSE WIDTH $\leq 100 \mu\text{s}$ AND DUTY $\leq 1\%$

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

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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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JN			PAGE: 1 OF 1
			SCALE: N/A

T-5mm, 940nm INFRARED EMITTING DIODE,
FLAT TOP, WATER CLEAR LENS.



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