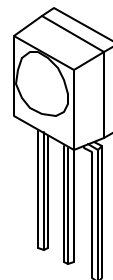
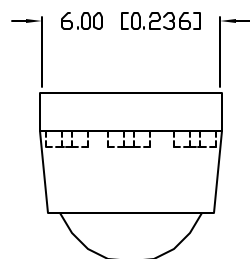


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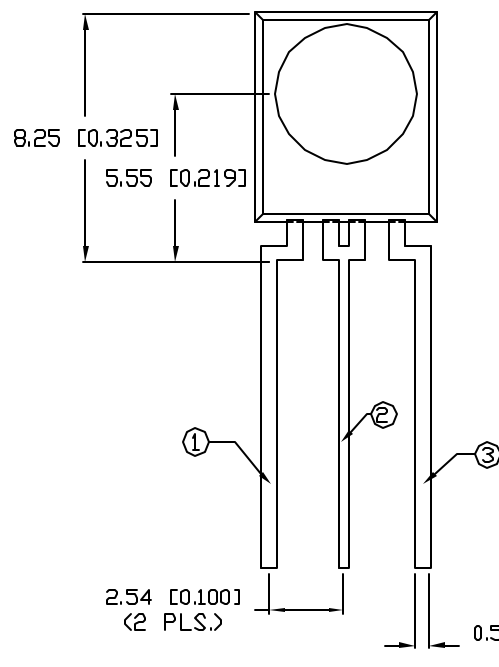
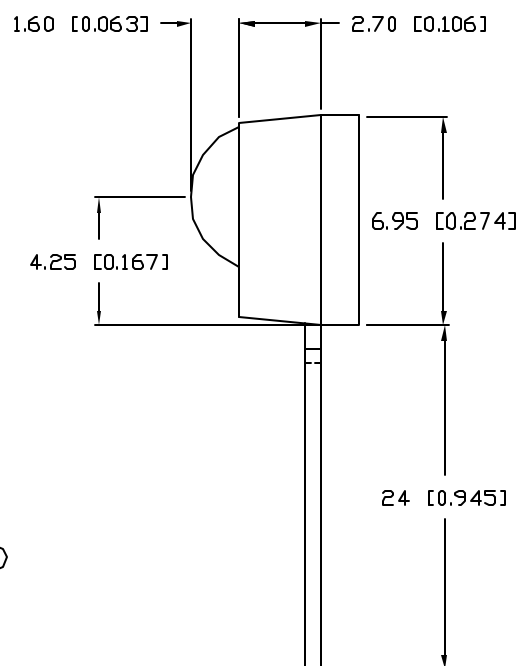
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ELECTRO-OPTICAL CHARACTERISTICS $T_A = 25^\circ\text{C}$

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
PEAK WAVELENGTH	λ		940		nm
SUPPLY VOLTAGE	V_{cc}		5		V
SUPPLY CURRENT	I_{cc}		1.2		mA
DETECTING DISTANCE	L_D	14			m
	L_{45}	6			m
HALF ANGLE	θ		± 45		DEG
B.P.F. CENTER FREQUENCY	f_o		38		KHz
HIGH LEVEL OUTPUT VOLT.	V_{oh}	4.5			V
LOW LEVEL OUTPUT VOLT.	V_{ol}		0.2	0.5	V
HIGH/LOW LVL. PULSE WIDTH	TH/TL	400		800	μs

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	UNITS	RATING	UNITS
SUPPLY VOLTAGE	V_{cc}	6	V
SUPPLY CURRENT	I_{cc}	1.2	mA
OPERATING TEMP.	T_{opr}	-25 TO +80	$^\circ\text{C}$
STORAGE TEMP.	T_{str}	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	T_{sol}	+260	$^\circ\text{C}$
2.0mm FROM BODY			3 SEC. MAX



NOTES:

1. OUT
2. GND
3. V_{cc}

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SIDE FIRING, INFRARED REMOTE CONTROL,
RECEIVER MODULE, BLACK LEADS.

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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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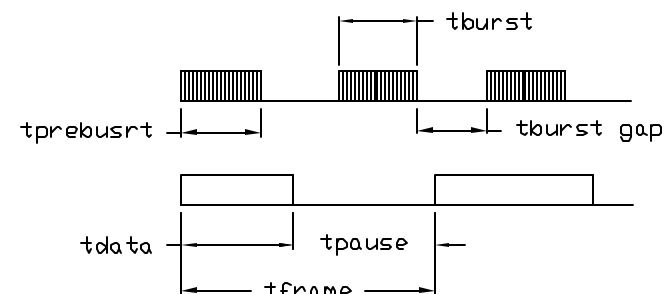
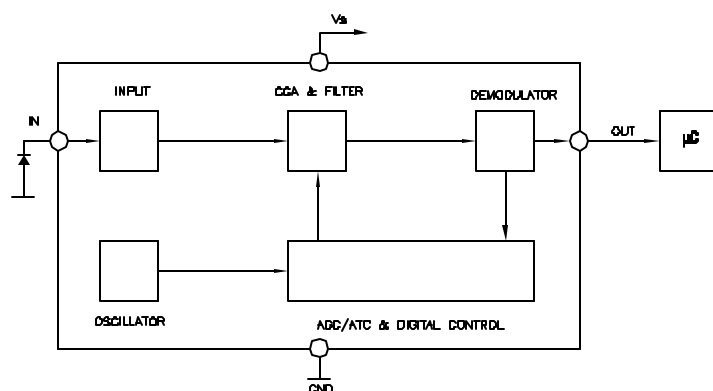
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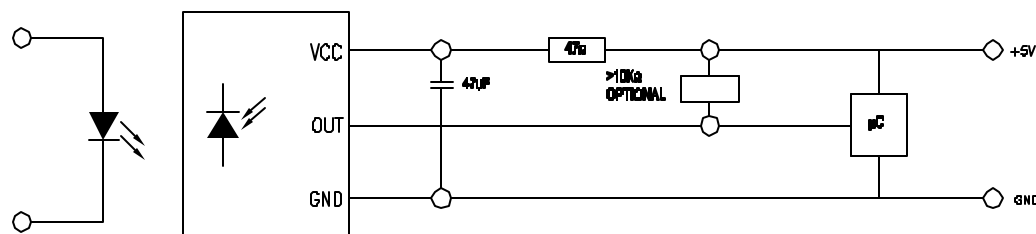
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BLOCK DIAGRAM



MINIMUM tburst (NUMBER OF PULSE PER BURST)	10 PULSE
MINIMUM tburst gap (NUMBER OF PULSE BETWEEN TWO BURST)	14 PULSE
MINIMUM tpause	25 ms

APPLICATION CIRCUIT:

RC FILTER SHOULD BE CONNECTED CLOSELY BETWEEN V_{CC} PIN AND GND PIN.

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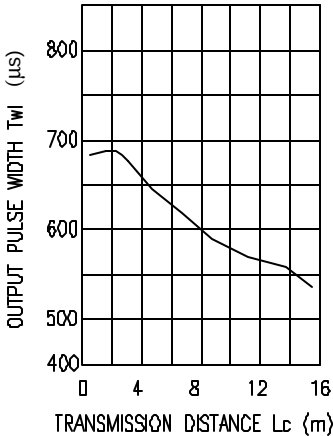
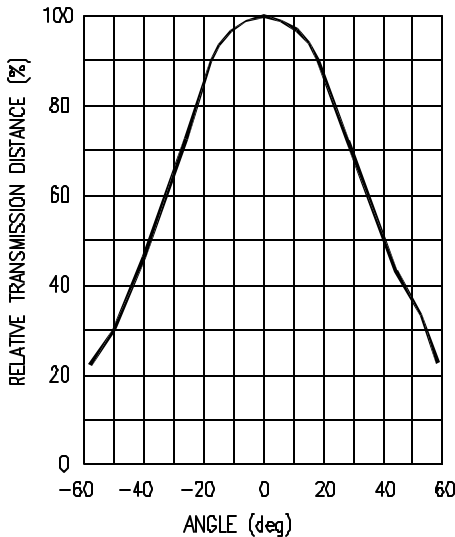
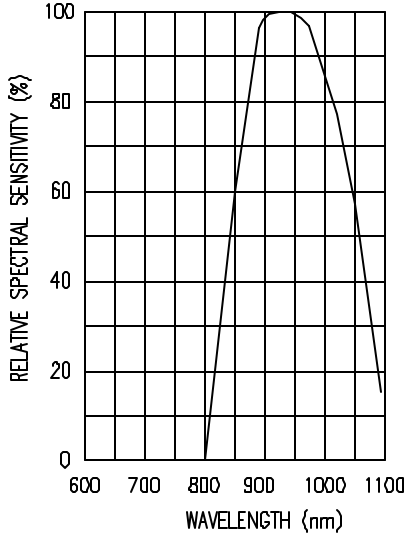
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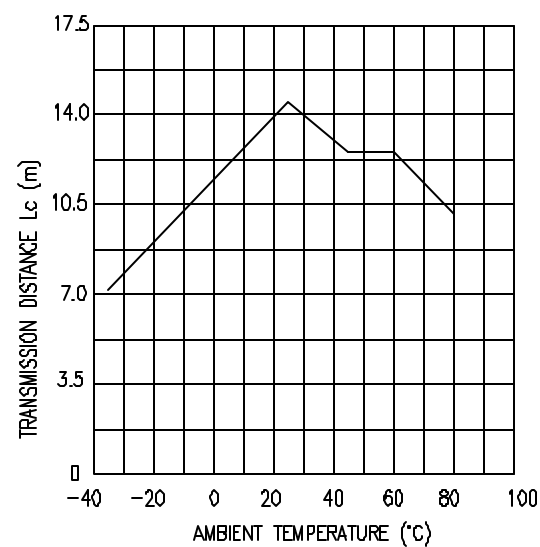
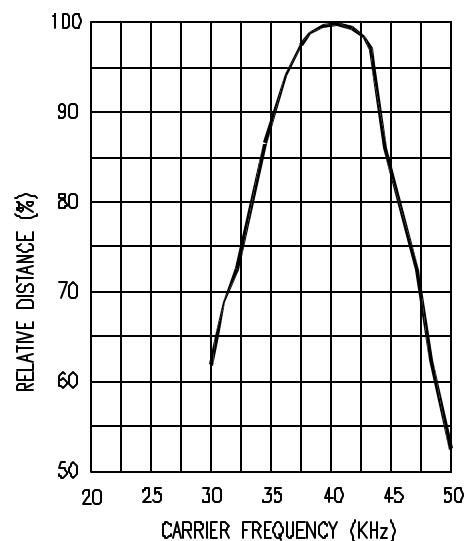
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