

LTR	REVISION	DATE	APPD
1	PRELIMINARY RELEASE	04-23-98	
-	RELEASE	06-14-00	
A	021705-PL01: REVISE ELECT. DATA	02-17-05	

WARNING: DO NOT LOOK AT LED DIRECTLY WHEN POWER IS ON, USE IR CAMERA TO VIEW LED

NOTES:

1. ALL DIMS ARE IN INCHES (MILLIMETERS).
2. TOLERANCE IS  $\pm 0.010"$  ( $\pm 0.25\text{mm}$ ) UNLESS OTHERWISE SPECIFIED.
3. LEAD SPACING IS MEASURED WHERE LEADS EMERGE FROM THE PACKAGE.
4. LEADS TO BE SOLDERABLE AND CAPABLE OF MEETING THE SOLDERABILITY REQUIREMENTS OF MIL-STD-202, METHOD 208.
5. MANUFACTURE DATE SHALL NOT BE OLDER THAN 26 WEEKS (6 MONTHS).

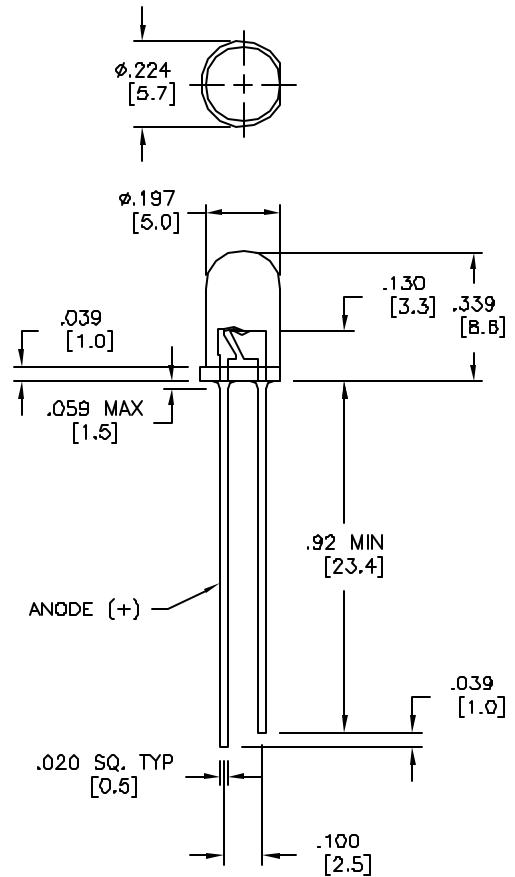
ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
POWER DISSIPATION	$P_d$	100	mW
FORWARD CURRENT	$I_f$	100	mA
PEAK FORWARD CURRENT *1	$I_{fP}$	1.0	A
REVERSE VOLTAGE	$V_r$	5	V
OPERATING TEMPERATURE	$T_{opr}$	$-40^\circ\text{C} \sim 85^\circ\text{C}$	-
STORAGE TEMPERATURE	$T_{stg}$	$-40^\circ\text{C} \sim 85^\circ\text{C}$	-
SOLDERING TEMPERATURE	$T_{sol}$	260°C (FOR 5 SEC.)	-

\*1 CONDITION FOR  $I_{fP}$  IS PULSE OF 1/10 DUTY AND 0.1MSEC WIDTH

ELECTRO-OPTICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
RADIANT INTENSITY	$I_e$	$I_f=50\text{mA}$	45.3	128.5	-	mW/sr
FORWARD VOLTAGE	$V_f$	$I_f=50\text{mA}$	-	1.5	1.8	V
REVERSE CURRENT	$I_r$	$V_r=5\text{V}$	-	-	100	$\mu\text{A}$
PEAK WAVELENGTH	$\lambda_p$	$I_f=20\text{mA}$	-	850	-	nm
SPECTRAL LINE HALF-WIDTH	$\Delta\lambda$	$I_f=20\text{mA}$	-	50	-	nm
VIEWING ANGLE	$2\theta_{1/2}$	$I_f=20\text{mA}$	-	20	-	deg



L.E.D. RADIATION COLOR	LENS APPEARANCE
INFRARED	WATER CLEAR

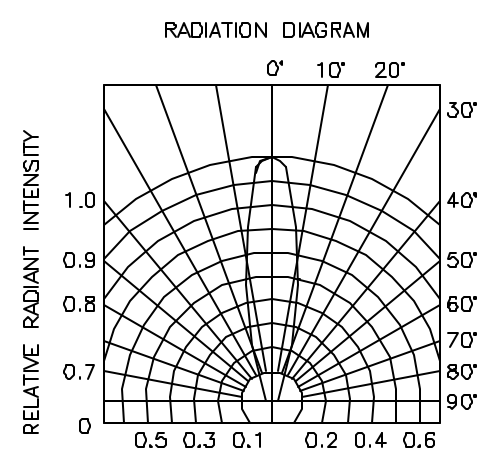
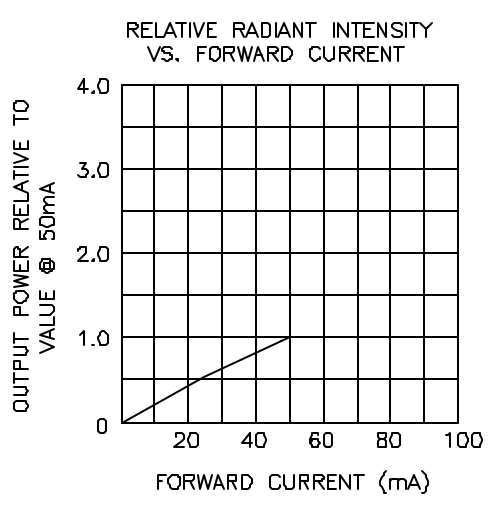
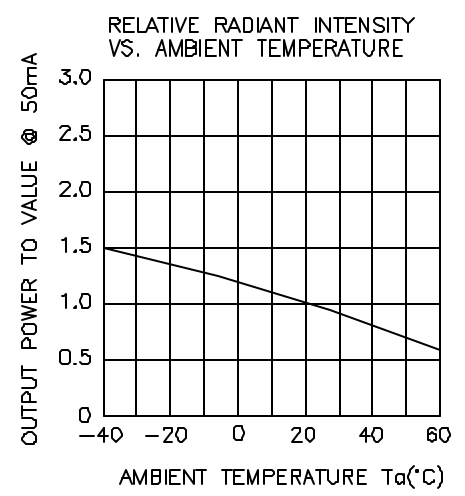
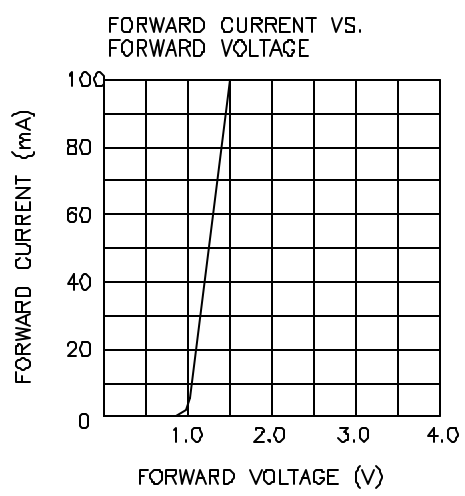
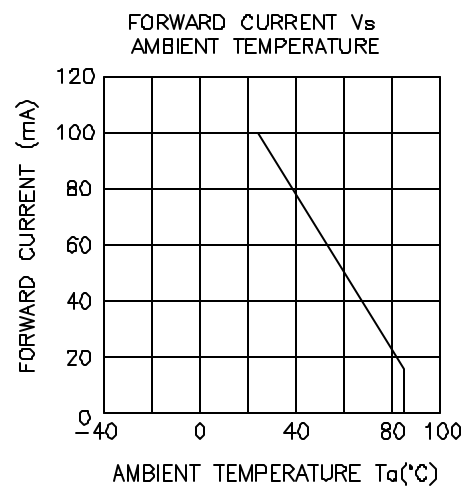
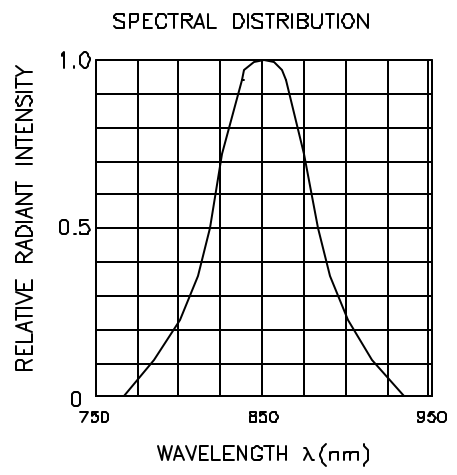


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.XXX  $\pm$  .010 TOLERANCE PER ANSI-Y14.5  
.XX  $\pm$  .025 (UNLESS OTHERWISE STATED)  
ANGLES  $\pm$  0°.30"  
FRACT.  $\pm$  1/32

TITLE			
L200CWIR851			
DWG NO	SCALE	SHEET	DATE
DSDC0185	1:1	1 OF 1	04-23-98
CODE IDENT NO.	DWG BY	CHK BY	QA
8Z410	SMA	PL	JCH
MNFG	CUSTOMER		
02-25-05	02-25-05		

LTR	REVISION	DATE	APPD
-	RELEASED	02-23-05	



**LED**<sup>®</sup>  
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.XXX ± .010 TOLERANCE PER ANSI-Y14.5  
 .XX ± .025 (UNLESS OTHERWISE STATED)  
 ANGLES ± 0°.30'  
 FRACT. ± 1/32

TITLE			
L200CWIR851			
DWG NO	SCALE	SHEET	DATE
DSDCO185-A	2:1	2 OF 2	02-23-05
CODE IDENT NO.	DWG BY	CHK BY	QA
82410	RM	PL JCH	02-25-05
MFG			CUSTOMER