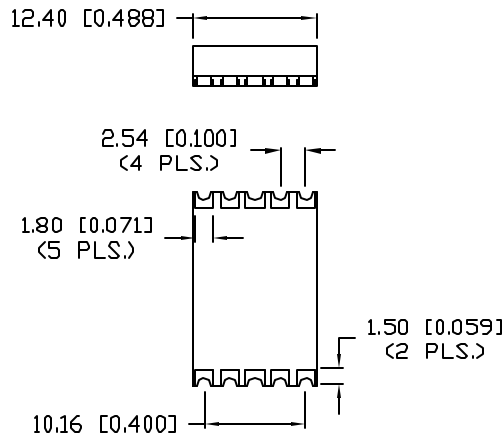
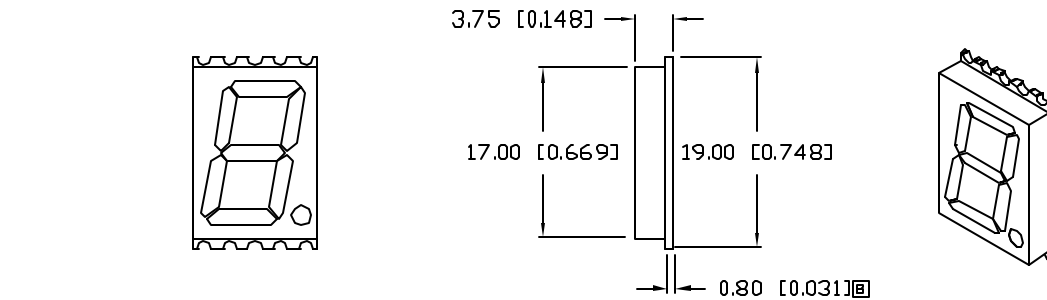


UNCONTROLLED DOCUMENT

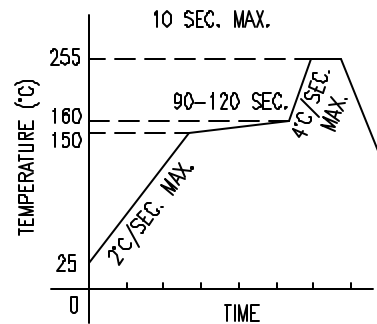
PART NUMBER
LDS-SMA5617RIUSBTRREV.
B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11204. & 11205.	12.28.04
B	E.C.N. #11420.	6.08.07

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

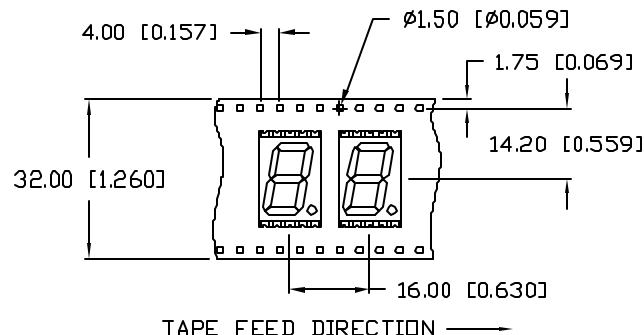
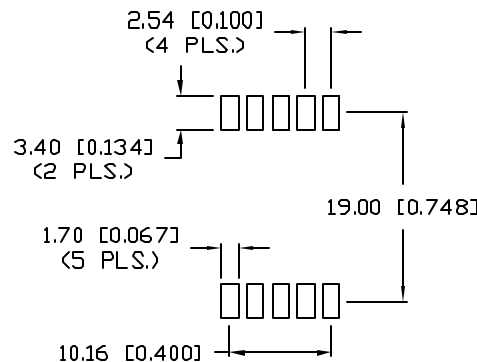


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

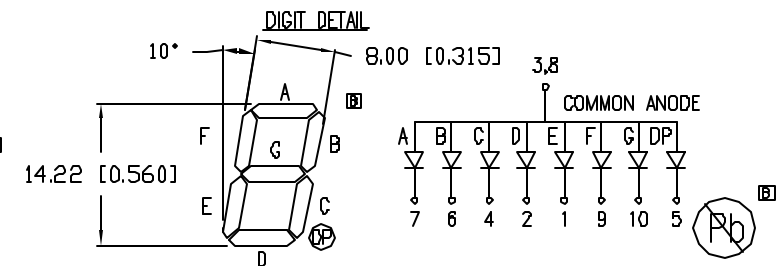
RECOMMENDED SOLDER PAD LAYOUT

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=10\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		470		nm	
FORWARD VOLTAGE		3.5	4.0	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		15,800		μcd	$I_f=10\text{mA}$
EMITTED COLOR:	BLUE				
FACE COLOR:	GRAY				
SEGMENT COLOR:	MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	105	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C

* $t < 10\mu\text{s}$ 

UNCONTROLLED DOCUMENT

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

REV.

B

PART NUMBER

LDS-SMA5617RIUSBTR

0.56" SINGLE DIGIT SEVEN SEGMENT DISPLAY,
SURFACE MOUNT, 470nm InGaN BLUE CHIPS,
GRAY FACE, WHITE SEGMENTS.

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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DATE: 5.23.03

PAGE: 1 OF 1

SCALE: N/A