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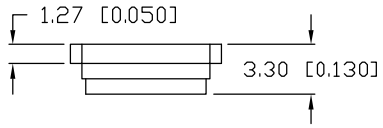
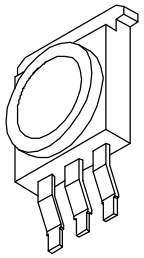
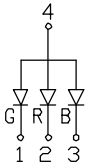
PART NUMBER

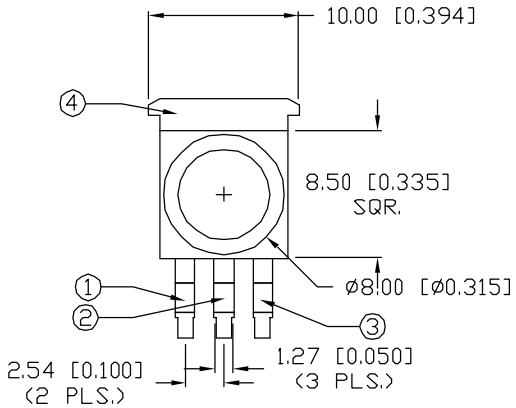
SML-LX1610RGBW/A

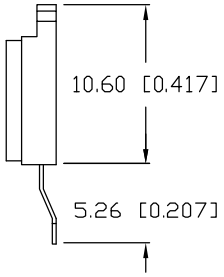
REV.











ELECTRO-OPTICAL CHARACTERISTICS T_A=25°C

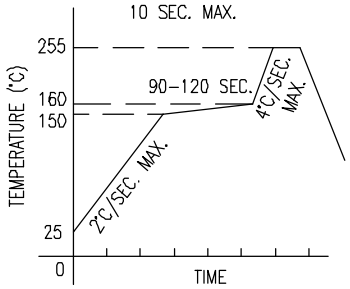
PARAMETER		MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			626 (RED)		nm	
			525 (GREEN)		nm	
			470 (BLUE)		nm	
FORWARD VOLTAGE	(R)		2.1	2.79	V_f	I_f=300mA
	(G)		3.5	3.99	V_f	I_f=350mA
	(B)		3.5	3.99	V_f	I_f=350mA
REVERSE VOLTAGE		5.0			V_r	I_r=100µA
TOTAL FLUX	(R/G/B)		25/25/8		lm	
VIEWING ANGLE			110		2x theta	
EMITTED COLOR:	RED/GREEN/BLUE					
EPOXY LENS FINISH:	WHITE DIFFUSED					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	350/500/500	mA
STEADY CURRENT	(R/G/B)	300/350/350	mA
POWER DISSIPATION		3.5	W
OPERATING TEMP.		-30 TO +85	°C
STORAGE TEMP.		-30 TO +85	°C
SOLDERING TEMP.		+260	°C
2.0mm FROM BODY			3 SEC. MAX

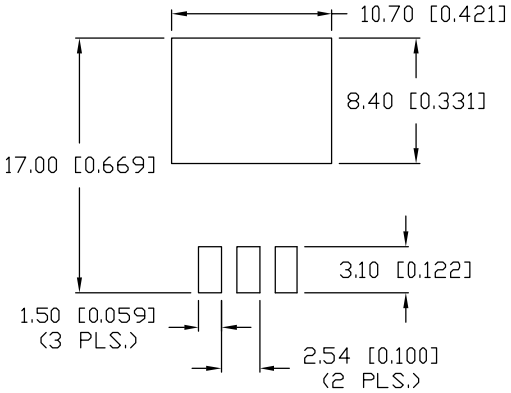
*T<10µS

LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

SOLDER PAD LAYOUT



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

NOTES:

1. 50 PCS. IN EACH TUBE.

Pb

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*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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

SML-LX1610RGBW/A

10.60 x 10mm HIGH POWER LED, RGB LEDs.

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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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