

PART NUMBER SML-H150E5SID/1

REV.

E.C.N. NUMBER AND REVISION COMMENTS DATE E.C.N. #11599. 11.18.09

ELECTRO-OPTICAL CHA	RACTE	RISTICS TA=25°C	:	$I_f = 20mA$	
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	_
FORWARD VOLTAGE		2.1	2.5	V_{f}	
REVERSE VOLTAGE	5.0			v_r	I _r =100µA
AXIAL INTENSITY*	2200		5400	mcd	$I_f = 20 \text{mA}$
■ VIEWING ANGLE (X)		60		2x theta	
VIEWING ANGLE (Y)		35		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED	DIFFUSED			

LIMITS OF SAFE OPERATION AT 25°C PER DIE

MAX	UNITS
100	mA
35	mA
90	mW
-1.2	mW/°C
-30 TO +80	•C
-40 TO +100	° C
	100 35 90 -1.2 -30 TO +80

**1/10 DUTY CYCLE, 0.1mS PULSE WIDTH

RECOMMENDED PAD LAYOUT

1.25 [0.049] (2 PLS.) 2.40 [0.094] (2 PLS) AØ1.04 [Ø0.041] 3.30 [0.130] 6.60 [0.260] *AXIAL INTENSITY BINS

INTENSITY@20mA				
MIN (mcd)	MAX (mcd)			
2200	2750			
2750	3440			
3440	4300			
4300	5400			
	MIN (mcd) 2200 2750 3440			

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5X4mm ELLIPTICAL SURFACE MOUNTED DOME LED.

635nm RED LED. RED DIFFUSED.

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

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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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CHECKED BY: APPROVED BY: DATE: 02.27.09 DRAWN BY: PAGE: 1 OF 2 SCALE: N/A

JN

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* PATENT PENDING

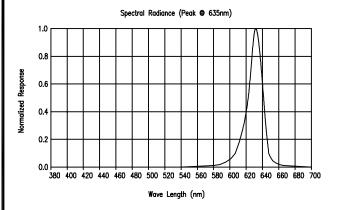
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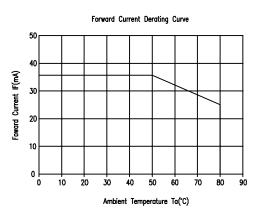
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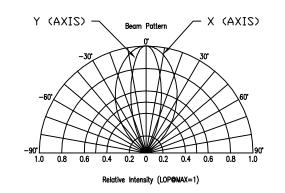
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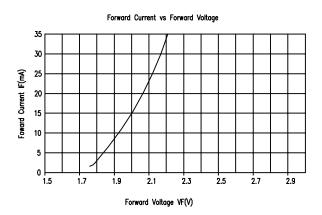
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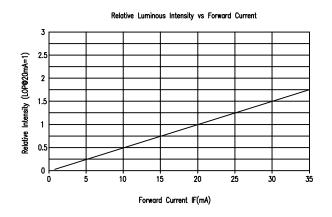


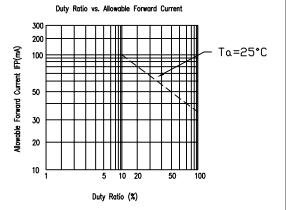












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5X4mm ELLIPTICAL SURFACE MOUNTED DOME LED. 635nm RED LED. RED DIFFUSED.

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SCALE: N/A

Mouser Electronics

Authorized Distributor

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