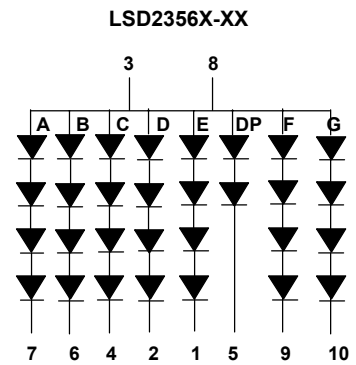
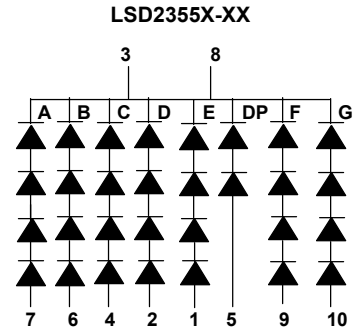
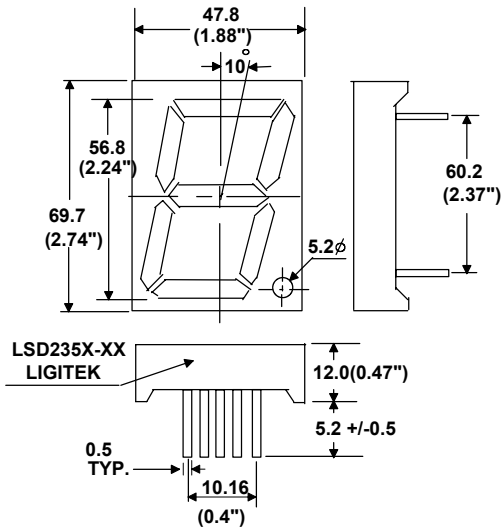


**SINGLE DIGIT LED DISPLAY (2.3 inch)**

**LSD2355X/6X series**

*PACKAGE DIMENSION*

*INTERNAL CIRCUIT DIAGRAM*



NOTE: all dimension are in millimeters and (inch)  
tolerance is  $\pm 0.25(0.01)$ " unless otherwise noted

• **connection to electrical schematic**

*electrical connection*

PIN NO.	LSD2355X-XX	PIN NO.	LSD2356X-XX
1	ANODE E	1	CATHODE E
2	ANODE D	2	CATHODE D
3	COMMON CATHODE	3	COMMON ANODE
4	ANODE C	4	CATHODE C
5	ANODE DP	5	CATHODE DP
6	ANODE B	6	CATHODE B
7	ANODE A	7	CATHODE A
8	COMMON CATHODE	8	COMMON ANODE
9	ANODE F	9	CATHODE F
10	ANODE G	10	CATHODE G

Specifications may be subject to change without notice

• Part selection and electro-optical characteristics ( ratings @Ta=25°C)

PART NO	CHIP		common cathode or anode	$\lambda_P$ (nm)	$\Delta\lambda$ (nm)	ELECTRICAL					IV-M
	material	emitted				Vf(v)			Iv(mcd)		
						Min	Typ	Max	Min	Typ.	
LSD23555-XX	GaAlAs	RED	COMMON CATHODE	660	20	1.5	1.7	2.4	18	30	2:1
LSD23551-XX	GaP	RED		697	90	1.7	2.1	2.8	4.8	8	2:1
LSD23552-XX	GaP	GREEN		565	30	1.7	2.1	2.8	10	18	2:1
LSD23553-XX	GaAsP/GaP	YELLOW		585	35	1.7	2	2.8	8.4	14	2:1
LSD23554-XX	GaAsP/GaP	Hi-Eff Red		635	45	1.7	2	2.8	10	18	2:1
LSD23565-XX	GaAlAs	RED	COMMON ANODE	660	20	1.5	1.7	2.4	18	30	2:1
LSD23561-XX	GaP	RED		697	90	1.7	2.1	2.8	4.8	8	2:1
LSD23562-XX	GaP	GREEN		565	30	1.7	2.1	2.8	10	18	2:1
LSD23563-XX	GaAsP/GaP	YELLOW		585	35	1.7	2	2.8	8.4	14	2:1
LSD23564-XX	GaAsP/GaP	Hi-Eff Red		635	45	1.7	2	2.8	10	18	2:1

• ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	RED		GREEN	YELLOW		HI-EFF RED	UNIT	REMARK
FORWARD CURRENT PER CHIP	SR	H	G	Y	I			
	40	15	30	20	30		mA	
PEAK CURRENT PER CHIP (DUTY 1/10, 0.1MS PULSE WIDTH)	200	60	120	80	120		mA	
POWER DISSIPATION PER CHIP	110	45	100	85	100		mW	
DERATING LINEAR FROM 25°C PER CHIP	0.45	0.25	0.45	0.45	0.45		mA/ °C	
REVERSE CURRENT PER ANY CHIP	10		10	10	10		μA	
OPERATING TEMPERATURE	-25°C TO +85°C							
STORAGE TEMPERATURE	-25°C TO +85°C							

SOLDER TEMPERATURE 1/16 INCH BELOW SEATING PLANE FOR 3 SECONDS AT 260°C

• TEST CONDITION FOR EACH PARAMETER

PARAMETER	SYMBOL	UNIT	TEST CONDITION
FORWARD VOLTAGE PER CHIP	Vf	volt	If=20mA
LUMINOUS INTENSITY PER CHIP	Iv	mcd	If=10mA
PEAK EMISSION WAVELENGTH	$\lambda_P$	nm	If=20mA
SPECTRAL LINE HALF-WIDTH	$\Delta\lambda$	nm	If=20mA
REVERSE CURRENT ANY CHIP	Ir	μA	Vr=5V
LUMINOUS INTENSITY MATCHING RATIO	IV-M		