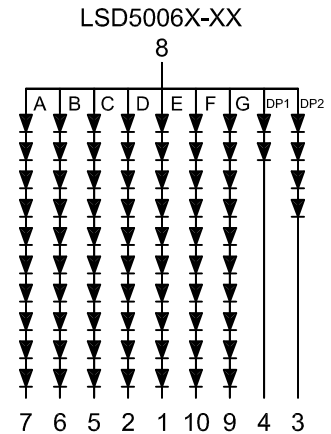
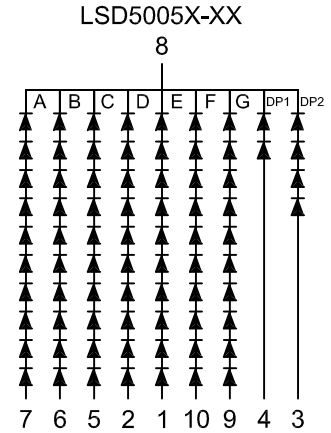
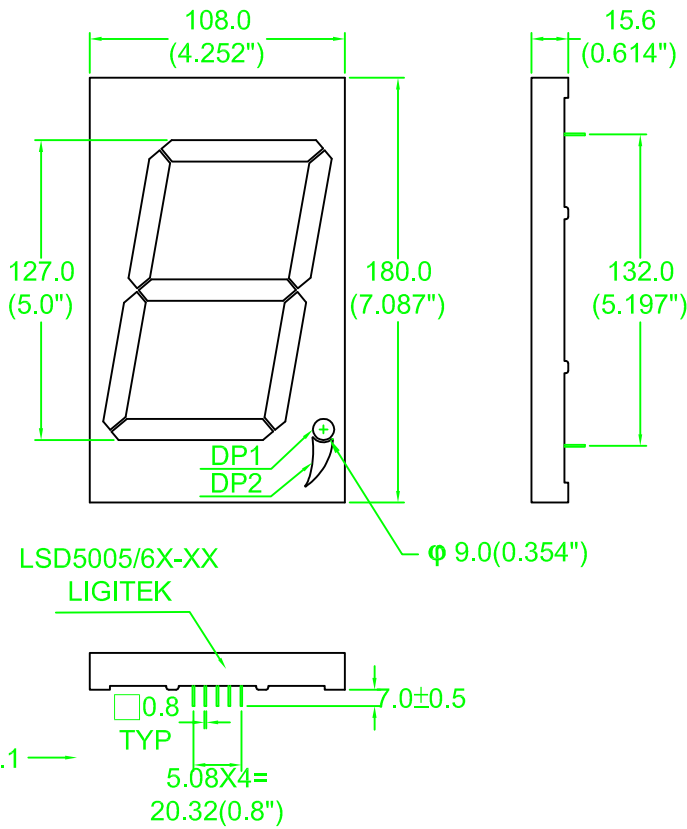




PACKAGE DIMENSION

INTERNAL CIRCUIT DIAGRAM



NOTE:1.All Dimension Are In Millimeters And (Inch)
Tolerance Is $\pm 0.25(0.01)$ unless Otherwise Noted
2.Specifications are subject to change without notice.

▪ Connection To Electrical Schematic

Electrical connection

PIN NO.	LSD5005X-XX	PIN NO.	LSD5006X-XX
1	Anode E	1	Cathode E
2	Anode D	2	Cathode D
3	Anode DP2	3	Cathode DP2
4	Anode DP1	4	Cathode DP1
5	Anode C	5	Cathode C
6	Anode B	6	Cathode B
7	Anode A	7	Cathode A
8	Common Cathode	8	Common Anode
9	Anode G	9	Cathode G
10	Anode F	10	Cathode F

• Part Selection And Application Information(Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	λD (nm)	$\Delta \lambda$ (nm)	Electrial					IV-M
	material	emitted					Vf(v)			Iv(mcd)		
							Min	Typ	Max	Min	Typ	
LSD50052-XX	GaP	Green	Common Cathode	565	----	30	17	21	28	7.2	12.8	2:1
LSD50053V-XX	AlGaInP	Yellow		----	595	15	17	20	28	21.5	45	2:1
LSD50054-XX	GaAsP/GaP	Orange		635	----	45	17	20	28	18	35	2:1
LSD50055-XX	GaAlAs	Red		660	----	20	15	17	24	26	45	2:1
LSD50052V-XX	GaP	Green		565	----	30	17	21	28	21.5	45	2:1
LSD50062-XX	GaP	Green	Common Anode	565	----	30	17	21	28	7.2	12.8	2:1
LSD50063V-XX	AlGaInP	Yellow		----	595	15	17	20	28	21.5	45	2:1
LSD50064-XX	GaAsP/GaP	Orange		635	----	45	17	20	28	18	35	2:1
LSD50065-XX	GaAlAs	Red		660	----	20	15	17	24	26	45	2:1
LSD50062V-XX	GaP	Green		565	----	30	17	21	28	21.5	45	2:1

• Absolut Maximum Rating (Ta=25°C)

Parameter	Red		Green		Yellow		Orange		Unit	Remark
	SR		VG	G	VY		E			
Forward Current Per Chip	40		30	30	30		30		mA	
Peak Current Per Chip (Duty 1/10,0.1mS Pulse Width)	200		120	120	200		120		mA	
Power Dissipation Per Chip	110		100		85		100		mW	
Derating Linear From 25°C Per Chip	0.45		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
Dominant Wavelength	λD	nm	If=20mA
Peak Emission Wavelength	λP	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		