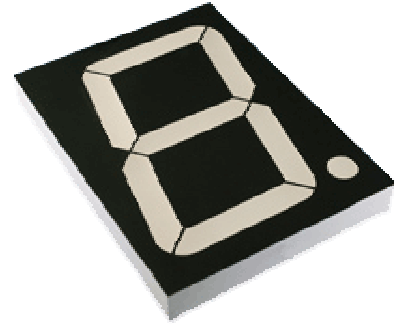




5"(126.6mm) Single Digit Display

◆ Features:

- High efficiency, low power consumption.
- Extremely low current.
- Luminous evenly distributed on each segment.
- Low development cost.



◆ Descriptions:

- Industrial standard size.
- These display provide excellent reliability in bright ambient light.
- These devices are made with white segments and black or grey surface.

◆ Applications:

- Audio equipment or instrument panels.
- General use for digital indicators.
- Multimedia product.

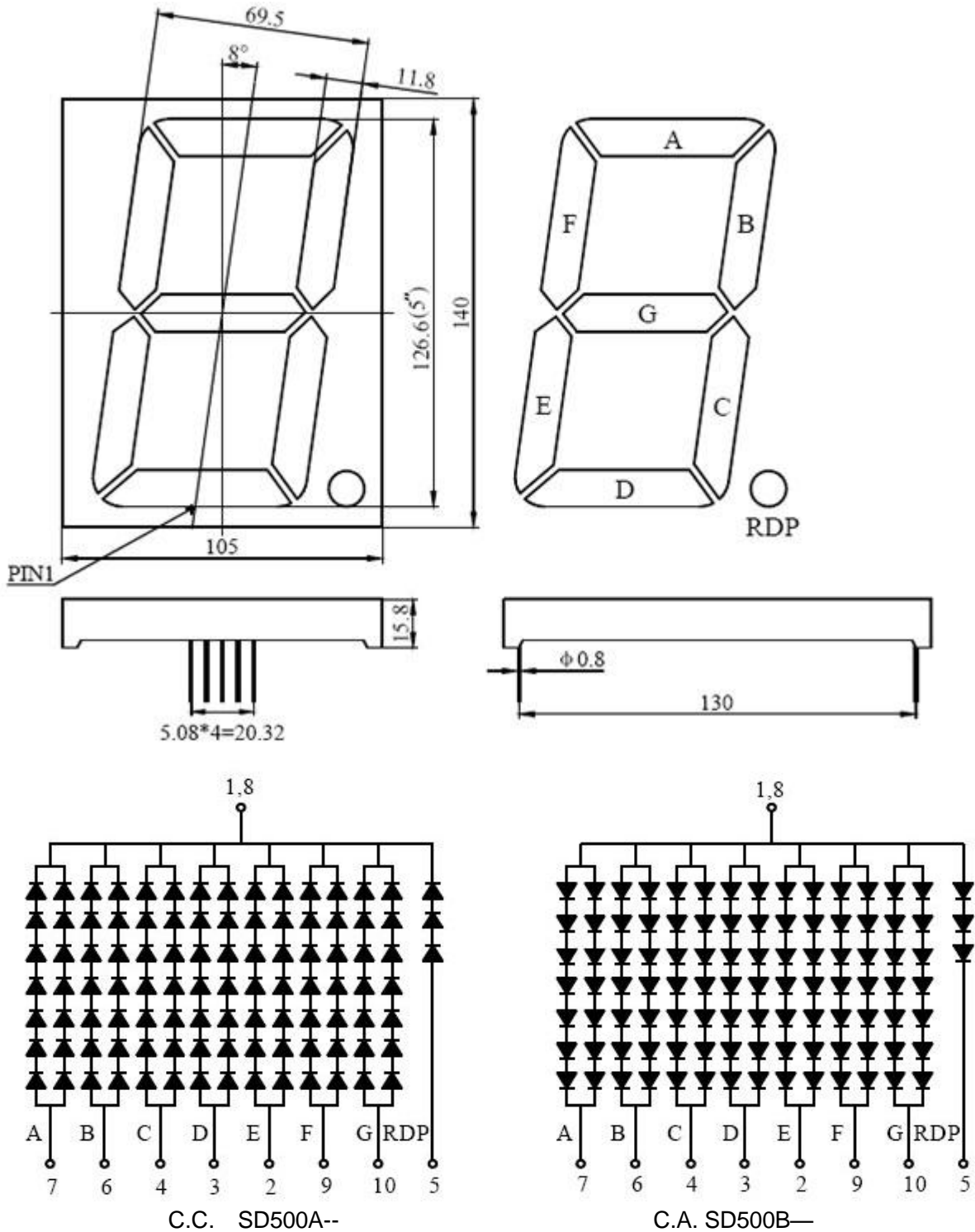
◆ Selection guide:

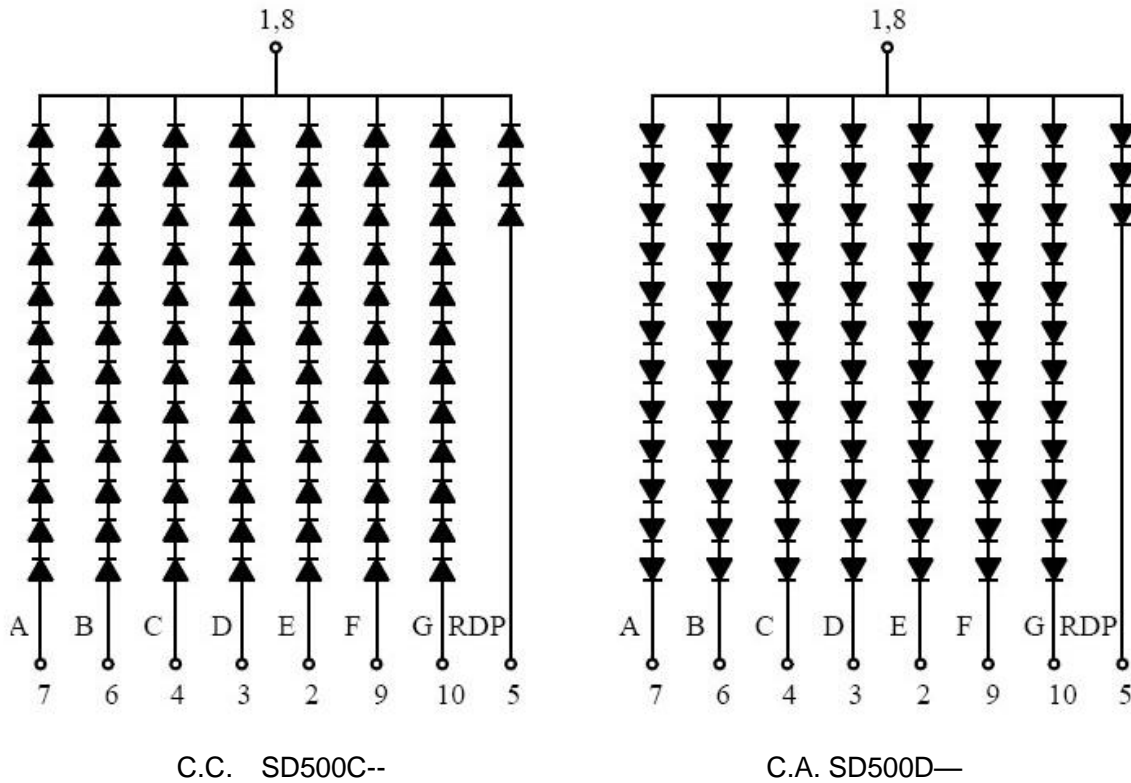
Part No.		Chip		Lens Color
Anode	Cathode	Material	Emitting Color	
JYSD500B/DSR	JYSD500A/CSR	GaAlAs	Super Red	White Diffused
JYSD500B/DG	JYSD500A/CG	GaP	green	
JYSD500B/D	JYSD500A/CE	GaAsP/GaP	orange	

-10 BLACK SURFACE -20 GREY SURFACE



◆ Package Dimensions:





Note: 1、 All dimensions are in millimetres (mm)
 2、 Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted

◆ **Absolute Maximum Rating (Ta=25°C)**

JYSD500A/B

Parameter	Symbol	Super Red	Green	Orange	Unit
Power Dissipation /Segment	P _D	600	650	650	Mw
Peak Forward Current /Segment	I _{FP}	120	120	120	mA
Continuous Forward Current /Segment	I _F	40	40	40	mA
Recommend use current /Segment	I _F	10-20	10-20	10-20	mA
Reverse Voltage /Segment	V _R	20	20	20	V
Operating Temperature Range	Topr	-25°C ~ 75°C			°C
Storage Temperature Range	Tstg	-30°C ~ 85°C			°C
Solder Temperature: 2mm From Body For 3 Seconds at 260°C					



JYSD500C/D

Parameter	Symbol	Super Red	Green	Orange	Unit
Power Dissipation /Segment	P _D	500	550	550	Mw
Peak Forward Current /Segment	I _{FP}	60	60	60	mA
Continuous Forward Current /Segment	I _F	25	25	25	mA
Recommend use current /Segment	I _F	5-10	5-10	5-10	mA
Reverse Voltage /Segment	V _R	20	20	20	V
Operating Temperature Range	T _{opr}	-25°C ~ 75°C			°C
Storage Temperature Range	T _{stg}	-30°C ~ 85°C			°C
Solder Temperature: 2mm From Body For 3 Seconds at 260°C					

- Notes:**
- 1、 This is the limit current . It is not allowed to use when the product work continuously.
 - 2、 It is recommended that the product is driven by TTL,CMOS.
 - 3、 Soldering time ≤ 5 seconds.

◆ Electrical Optical Characteristics (Ta=25°C)

JYSD500A/B

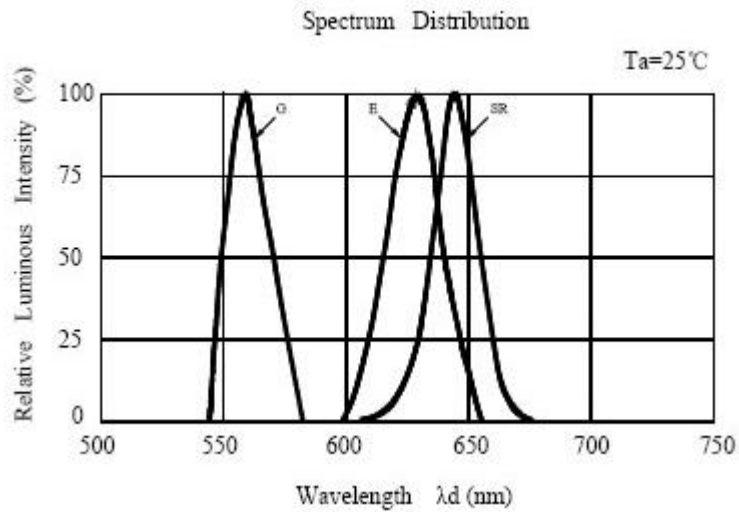
Parameter	Symbol	Super red		Green		Orange		Unit	Test Condition
		Typ.	Max	Typ.	Max	Typ.	Max		
Luminous Intensity /Segment	IV	37		27		27		mcd	IF =10mA
Forward Voltage /Segment	VF	12.6	16	15.4	17.5	14	17.5	V	IF =20mA
Reverse Current /Segment	IR		50		50		50	uA	VR=5V
Peak Emission Wavelength	λ P	645		565		630		nm	IF=20mA
Spectral Line Half Width	Δ λ	30		30		30		nm	IF=20mA

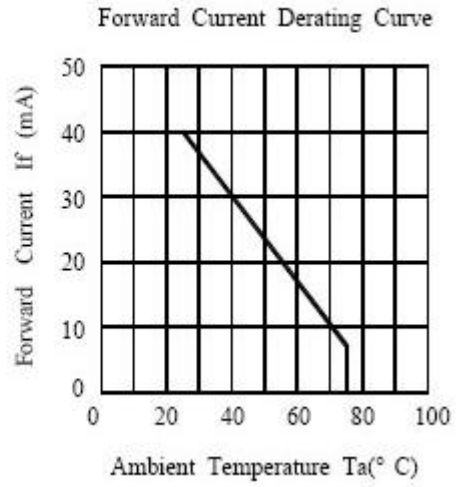
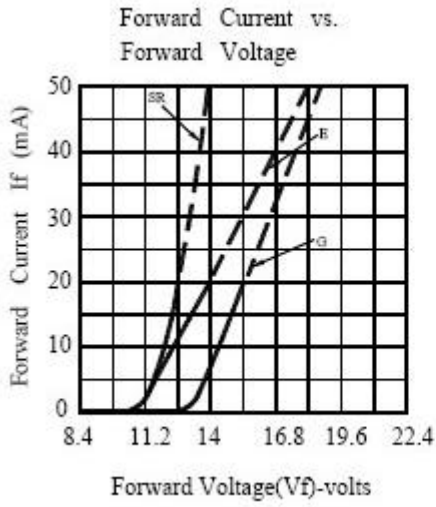


JYSD500C/D

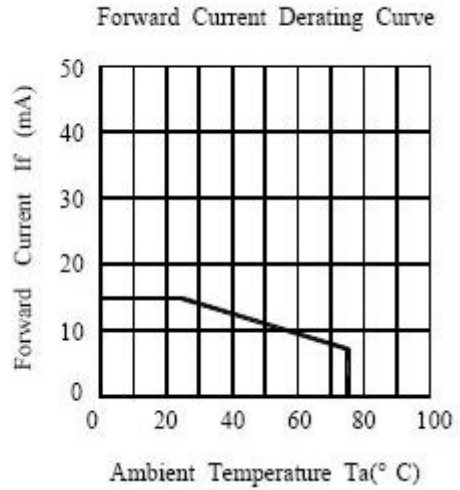
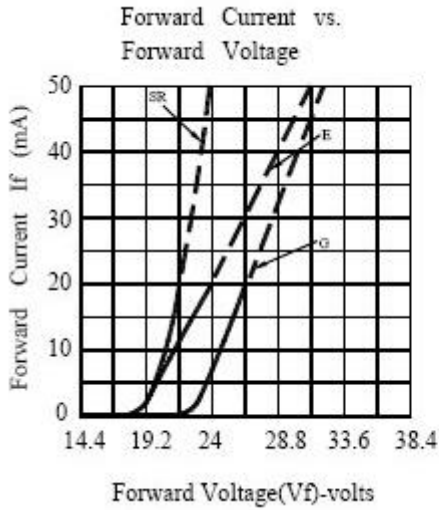
Parameter	Symbol	Super red		Green		Orange		Unit	Test Condition
		Typ.	Max	Typ.	Max	Typ.	Max		
Luminous Intensity /Segment	IV	46		23		23		mcd	IF =10mA
Forward Voltage /Segment	VF	22.2	27.6	26.4	30	24	30	V	IF =20mA
Reverse Current /Segment	IR		50		50		50	uA	VR=5V
Peak Emission Wavelength	λP	645		565		630		nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	30		30		30		nm	IF=20mA

◆ **Typical Electro-Optical Characteristics Curves**





SD500A/B



SD500C/D