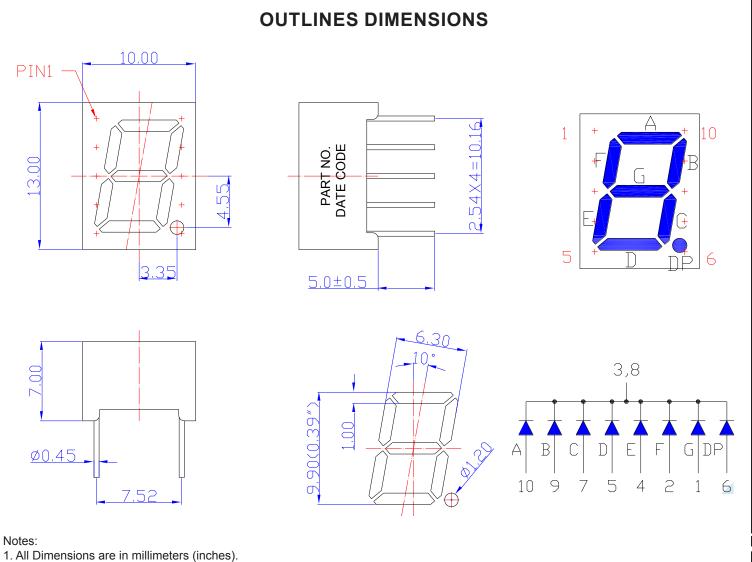


SPECIFICATIONS

CDSC39B2WF



2. Tolerance is \pm 0.25mm (0.01") unless otherwise noted.

3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission Lens Type		Description	
CDSC39B2WF	InGaN	Blue	White Segment	Common Cathode	



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit			
Power Dissipation	PD	120	mW			
Pulse Forward Current	lfp	100	mA			
Continuous Forward Current	lF	30	mA			
Reverse Voltage Segment	VR	5	V			
Operating Temperature Range	Topr	-25~+85	°C			
Storage Temperature Range	Тѕтс	-25~+85	°C			
IFP = Pulse Width \leq 10 ms, Duty Ratio \leq 1/10. Soldering Condition: 260 °C/ 5sec						

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Deremeter	Symbol	Test Condition	Value			Lineit
Parameter			Min	Тур	Max	Unit
Luminous Intensity	١v	l⊧ = 20mA	-	40	-	mcd
Forward Voltage	Vf	l⊧ = 20mA	-	3.0	4.0	V
Reverse Leakage Current	lr	V _R = 5V	-	-	10	μA
Dominant Wavelength	λD	l⊧ = 20mA	460	465	470	nm
Spectral Radiation Bandwidth	Δλ	l⊧ = 20mA	-	30	-	nm

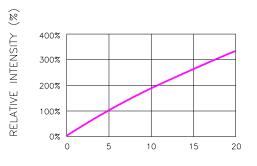


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OPTICAL CHARACTERISTIC CURVES





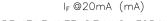
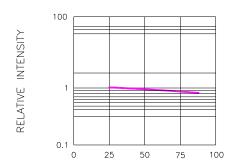
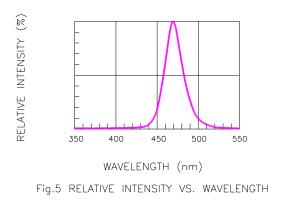
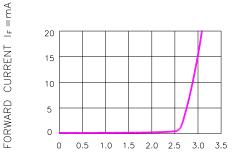


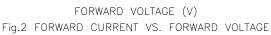
Fig.1 RELATIVE INTENSITY VS. FORWARD CURRENT

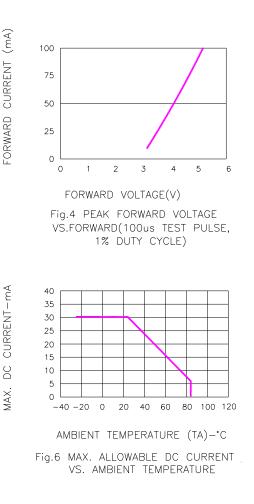












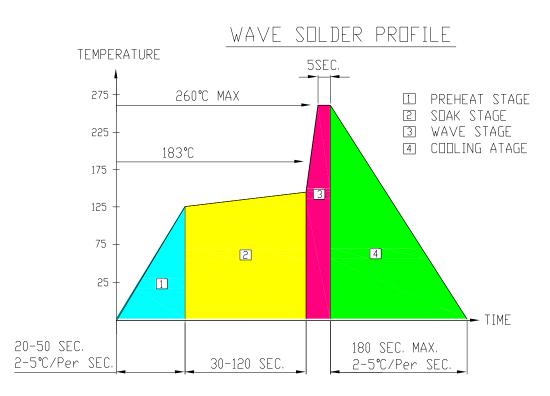


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SOLDERING CONDITIONS – DISPLAY TYPE LED

RECOMMEND SOLDERING PROFILE



Note:

- Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
- Peak wave soldering temperature between 245°C ~ 225°C for 3 sec (5 sec max)
- No more than one wave soldering pass

• SOLDERING IRON

Basic spec is ≦4 sec when 260°C. If temperature is higher, time should

be shorter (+10°C \rightarrow 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

REWORK

Customer must finish rework within ≦3 sec under 350°C. The head of soldering iron cannot touch copper foil.



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