SURFACE MOUNT DISPLAY

Part Number: ACDC56-41SRWA-F01

Super Bright Red

Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.



Package Dimensions& Internal Circuit Diagram

SPEC NO: DSAG0256 APPROVED: Wynec REV NO: V.10A CHECKED: Joe Lee DATE: DEC/24/2015 DRAWN: M.Liu PAGE: 1 OF 5 ERP: 1352000297

Selection Guide										
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description					
			Min.	Тур.	-					
ACDC56-41SRWA-F01	Super Bright Red (GaAlAs)	White Diffused	9000	26000	Common Cathode, Rt. Hand Decimal					
			*3600	*7200						

Note:

Luminous intensity/ luminous Flux: +/-15%.
* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	655		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=10mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.8	2.5	V	IF=10mA
IR	Reverse Current	Super Bright Red		10	uA	VR=5V

Notes: 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



REV NO: V.10A CHECKED: Joe Lee DATE: DEC/24/2015 DRAWN: M.Liu PAGE: 3 OF 5 ERP: 1352000297



REV NO: V.10A CHECKED: Joe Lee DATE: DEC/24/2015 DRAWN: M.Liu



- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

DATE: DEC/24/2015 DRAWN: M.Liu