



Specification For Approval

Customer :

Description : LED Display

Part Number : RL-D0821SBAW/D15

Date : 2005-03-17

Approved By:

Prepared By:

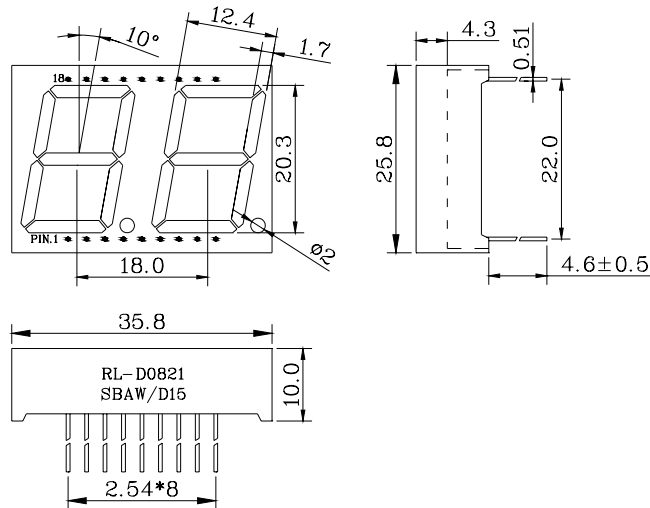
Checked	QC	Designed	Sales



Part No:RL-D0821SBAW/D15

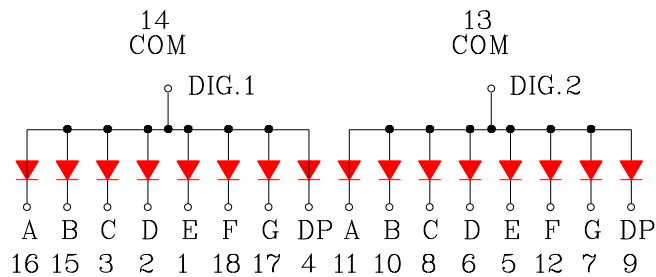
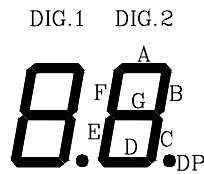
★ Package Dimensions

Unit:mm



NOTE: TOLERANCE±0.3mm

PIN FUNCTION



★ Selection Guide

Part NO.	Chip		LED Display		
	Material	Emitted Color	Surface color	Polarity	Color Colloid
RL-D0821 SBAW/D15	GaAlAs/GaAs	Super Red	Gray	CA	White



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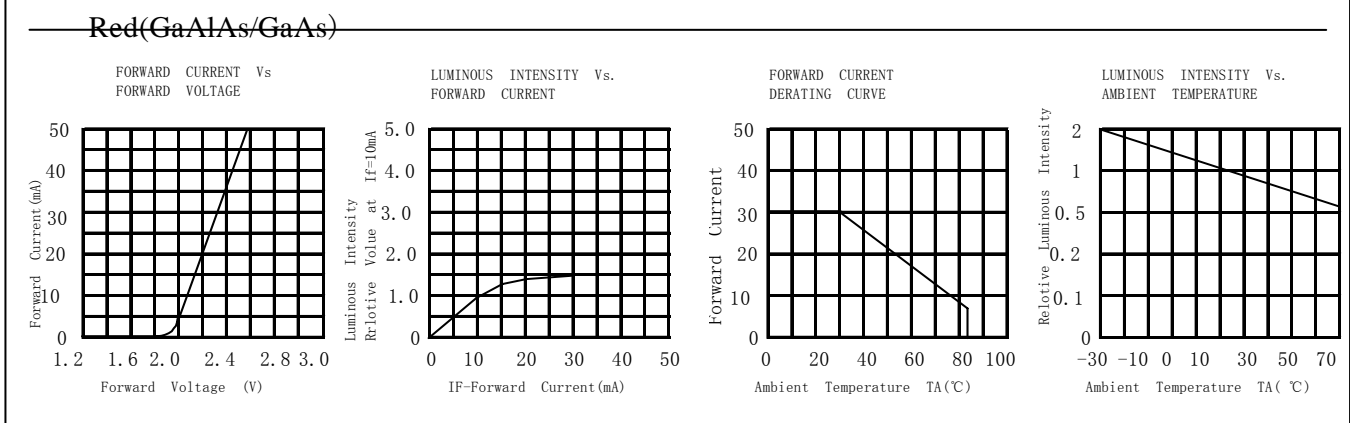
★Absolute Maximum Ratings (Ta=25°C)

Patameter	Symbol	MAX. Rating	Unit
Power Dissipation	Pd	110	mW
Peak forward current (10μs Pulse)	IFM	100	mA
Reverse Current	IR	100	μA
Continuous Forward Current	IF	20	mA
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+85	°C
Lead Soldering Temperature: 260°C For 5 SEC			

★Electric-Optical Characteristics

Patameter	Symbol	Test Condition	MIN	TYP	MAX	Unit
Forward Voltage	VF	IF=20mA	1.5	1.8	2.4	V
Reverse Voltage	VR	IR=100uA	5			V
Luminous Intensity	IV	IF=10mA	3300	4950		μ cd
Peak Emission Wavelength	λ P	IF=20mA		645		nm

★Characteritics Diagrams




Products: Led Displays
★Reliability Test

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Operating Life	Ta=25°C, I _F =20mA	1000 Hrs	76	0/1
2	Thermal Shock	-10°C (5min)→ (10sec)→+100 °C (5min)	100 Cycles	76	0/1
3	Temperature Cycle	-40°C (30min) →(5min)→+85 °C (30min)	100 Cycles	76	0/1
4	High Temp./ High Humi. Test	85°C/85%RH	1000 Hrs	76	0/1
5	High Temperature Storage	Ta=100°C	1000 Hrs	76	0/1
6	Low Temperature Storage	Ta= - 40°C	1000 Hrs	76	0/1
7	Soldering Heat	260°C±5°C	5 Seconds	76	0/1