

LED NUMERIC DISPLAY, 4 DIGIT

BL-Q56X-43

Features:

- Ø 14.20mm (0.56") Four digit and Over Seven Segment LED display series
- Ø Low current operation.
- Ø Excellent character appearance.
- Ø Easy mounting on P.C. Boards or sockets.
- Ø I.C. Compatible.
- Ø ROHS Compliance.



Super Bright

Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part No		Chip			VF Unit:V		Iv TYP.(mcd)
Common Cathode	Common Anode	Emitted Color	Material	λ_p (nm)	Typ	Max	
BL-Q56C-43S-XX	BL-Q56D-43S-XX	Hi Red	GaAlAs/GaAs,SH	660	1.85	2.20	115
BL-Q56C-43D-XX	BL-Q56D-43D-XX	Super Red	GaAlAs/GaAs,DH	660	1.85	2.20	120
BL-Q56C-43UR-XX	BL-Q56D-43UR-XX	Ultra Red	GaAlAs/GaAs,DDH	660	1.85	2.20	165
BL-Q56C-43E-XX	BL-Q56D-43E-XX	Orange	GaAsP/GaP	635	2.10	2.50	120
BL-Q56C-43Y-XX	BL-Q56D-43Y-XX	Yellow	GaAsP/GaP	585	2.10	2.50	120
BL-Q56C-43G-XX	BL-Q56D-43G-XX	Green	GaP/GaP	570	2.20	2.50	120

Ultra Bright

Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part No		Chip			VF Unit:V		Iv TYP.(mcd)
Common Cathode	Common Anode	Emitted Color	Material	λ_p (nm)	Typ	Max	
BL-Q56C-43UHR-XX	BL-Q56D-43UHR-XX	Ultra Red	AlGaInP	645	2.10	2.50	165
BL-Q56C-43UE-XX	BL-Q56D-43UE-XX	Ultra Orange	AlGaInP	630	2.10	2.50	145
BL-Q56C-43YO-XX	BL-Q56D-43YO-XX	Ultra Amber	AlGaInP	619	2.10	2.50	145
BL-Q56C-43UY-XX	BL-Q56D-43UY-XX	Ultra Yellow	AlGaInP	590	2.10	2.50	145
BL-Q56C-43UG-XX	BL-Q56D-43UG-XX	Ultra Green	AlGaInP	574	2.20	2.50	145
BL-Q56C-43PG-XX	BL-Q56D-43PG-XX	Ultra Pure Green	InGaN	525	3.80	4.50	195
BL-Q56C-43B-XX	BL-Q56D-43B-XX	Ultra Blue	InGaN	470	2.70	4.20	125
BL-Q56C-43W-XX	BL-Q56D-43W-XX	Ultra White	InGaN	/	2.70	4.20	150

-XX: Surface / Lens color :

Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

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Absolute maximum ratings (Ta=25°C)

Parameter	S	D	UR	E	Y	G	Unit
Forward Current I_F	25	25	25	25	25	30	mA
Power Dissipation P_d	60	60	60	60	60	65	mW
Reverse Voltage V_R	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	mA
Operation Temperature T_{OPR}	-40 to +80						°C
Storage Temperature T_{STG}	-40 to +85						°C
Lead Soldering Temperature T_{SOL}	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)						°C

Absolute maximum ratings (Ta=25°C)

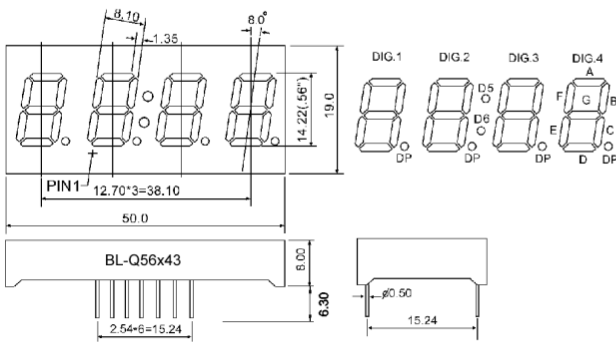
Parameter	UHR	UE	YO	UY	UG	PG	UB	UW	Unit
Forward Current I_F	30	30	30	30	30	30	30	30	mA
Power Dissipation P_d	75	65	65	65	75	110	120	120	mW
Reverse Voltage V_R	5	5	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	100	100	mA
Operation Temperature T_{OPR}	-40 to +80								°C
Storage Temperature T_{STG}	-40 to +85								°C
Lead Soldering Temperature T_{SOL}	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)								°C

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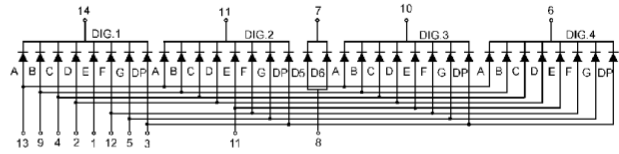
BL-Q56X-43

Package configuration & Internal circuit diagram

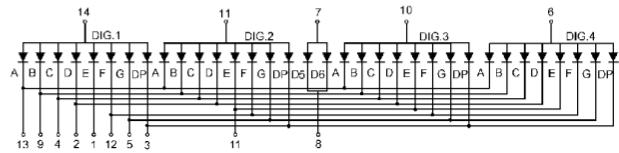
BL-Q56x43 Series



BL-Q56C43



BL-Q56D43



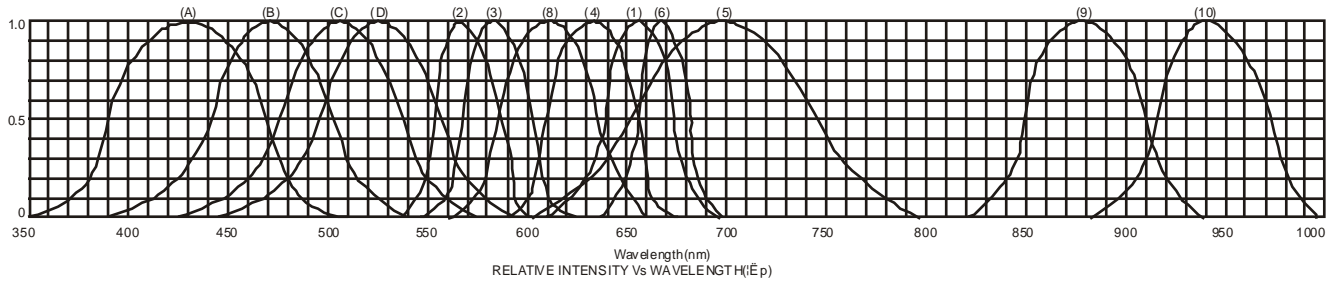
Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

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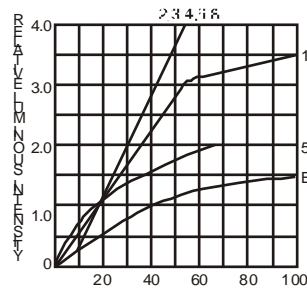
Typical electrical-optical characteristics curves:



- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAlSiC 525nm/Ultra Green



FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



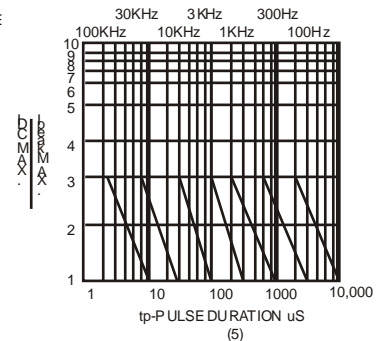
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta (°C)



NOTE: 25 free air temperature unless otherwise specified

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Packing and weighting

