

Features:

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





Super Bright

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

Part No			VF Unit:V		lv		
Common Cathode	Common Anode	Emitte d Color	Material	λ _P (nm)	Тур	Max	TYP.(mcd
BL-Q56C-43S-XX	BL-Q56D-43S-XX	Hi Red	Hi Red GaAlAs/GaAs,SH		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	Red	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		(,	VF		lv	
Common Cathode	Common Anode	Emitted Color	Material	λР	Unit:V		TYP.(mcd
Common Camode	Common Anode	Lillitted Color	Waterial	(nm)	Тур	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 Red	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	Υ	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							
Storage Temperature T _{STG}	-40 to +85							
Lead Soldering Temperature Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)						°C		

■ Absolute maximum ratings (Ta=25°C)

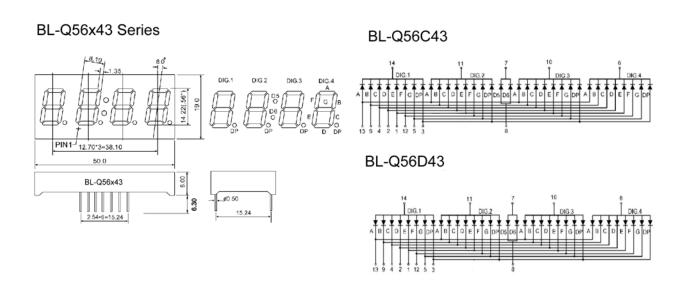
Parameter	UHR	UE	YO	UY	UG	PG	UB	uw	Unit
Forward Current I _F	30	30	30	30	30	30	30	30	mA
Power Dissipation P _d	75	65	65	65	75	110	120	120	mW
Reverse Voltage V _R	5	5	5	5	5	5	5	5	٧
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	100	100	mA
Operation Temperature T _{OPR}	-40 to +80								°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

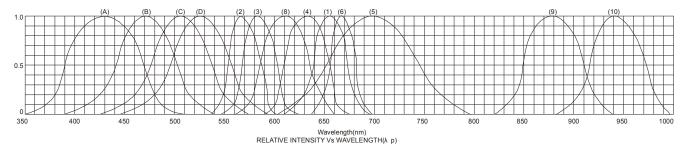


Notes:

- 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.

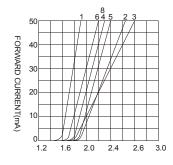


■ Typical electrical-optical characteristics curves:

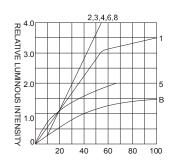


- (1) GaAsP/GaAs 655nm/Red
- (2) GaP 570nm/Yellow Green
- (3) GaAsP/GaP 585nm/Yellow
- (4) GaAsp/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) GaAlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP 610nm/Super Red

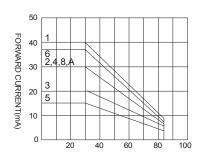
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430nm/Blue
- (B) InGaN/SiC 470nm/Blue
- (C) InGaN/SiC 505nm/Ultra Green
- (D) InGaAl/SiC 525nm/Ultra Green



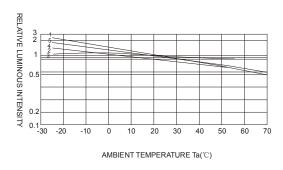
FORWARD VOLTAGE (Vf) FORWARD CURRENT VS. FORWARD VOLTAGE

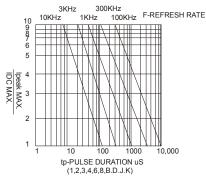


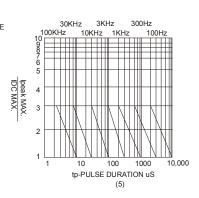
FORWARD CURRENT (mA) RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



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







NOTE:25℃ free air temperature unless otherwise specified



Packing and weighting

