

QT-Brightek Lamp with Housing Series
5mm Round Lamp with Bi-level Housing
Part No.: QBL8XX60D-MP9Y_series

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Introduction

Feature:

- Color Diffused lens
- Packaged in bulk pack
- 5mm round TH lamp with housing
- GaAsP technology for OA, YA
- GaP technology for YG
- AlGaAs technology for Deep red (SA)
- Viewing angle: 60° typ.

Description:

These 5mm round type lamps with bi-level housing is easy to mount on the panels.

Application:

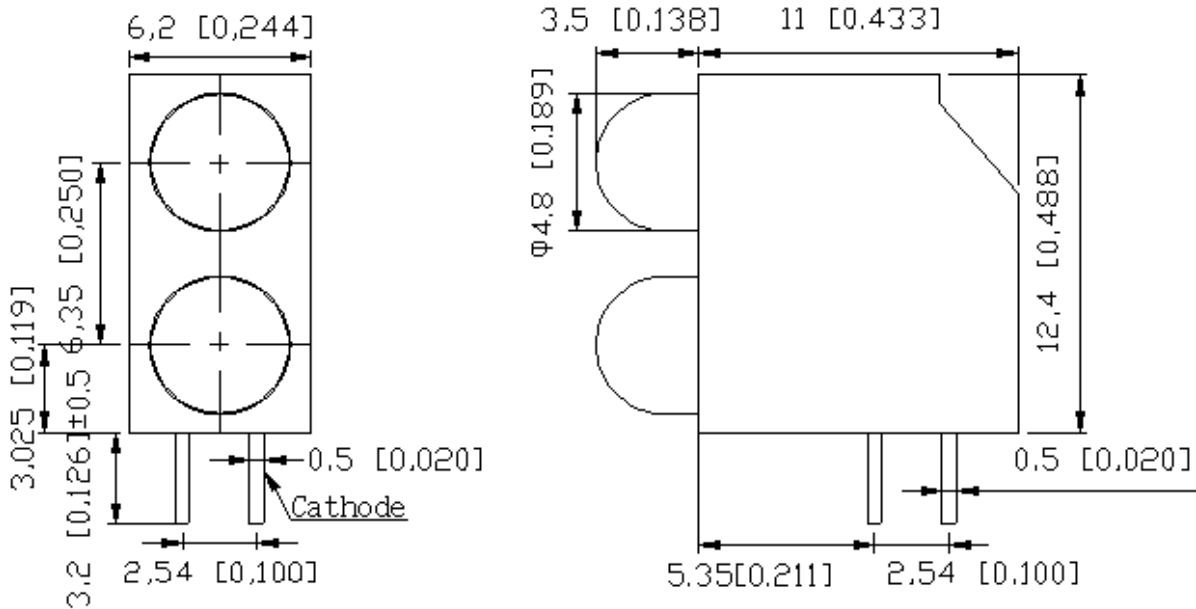
- General purpose indicator application
- Electronic instrument

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / general tolerance = +/-0.5mm unless otherwise specified

Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
QBL8SA60D-MP90	Deep Red	20	1.8	2.6	--	640	--	20	45
QBL8OA60D-MP92	Orange	20	2.0	2.6	--	603	--	9	20
QBL8YA60D-MP93	Yellow	20	2.0	2.6	--	588	--	9	20
QBL8YG60D-MP94	GaP Green	20	2.2	2.6	--	570	--	13	30

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AlGaAs	60	25	100	5	-40 to +80	-40 to +85	260
GaAsP	78	30	100	5	-40 to +80	-40 to +85	260
GaP	78	30	100	5	-40 to +80	-40 to +85	260

*Duty=0.1, 0.1ms Pulse Width

**Wave Soldering for no more than 3 sec @ 260 °C

Note:

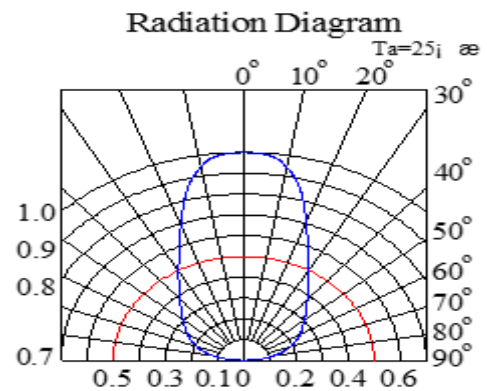
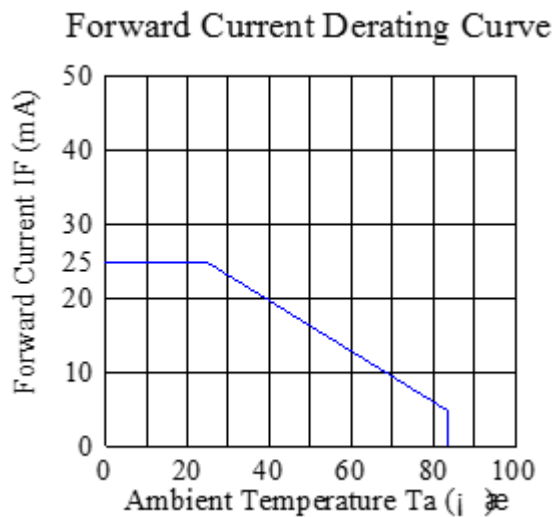
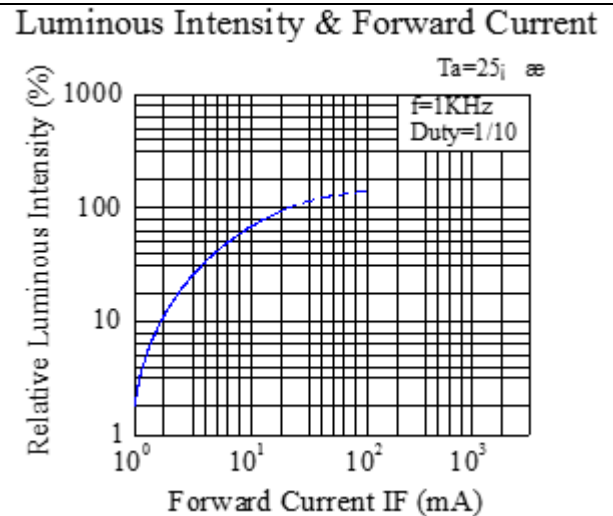
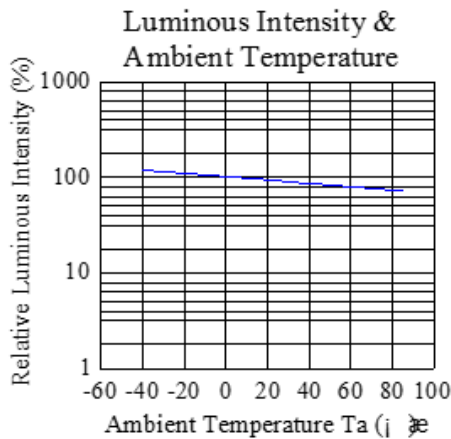
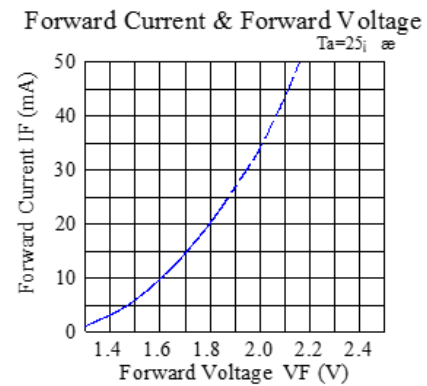
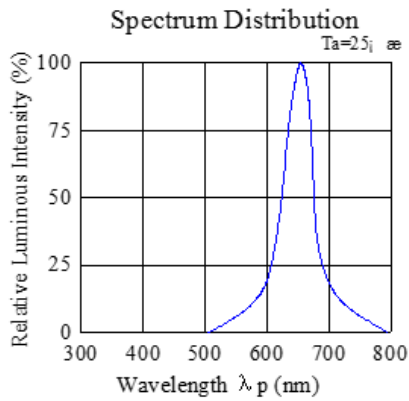
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

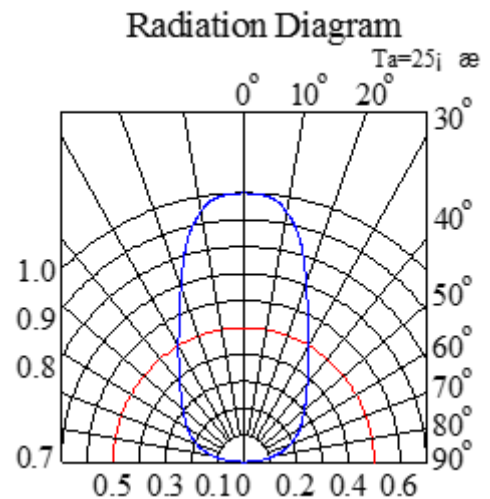
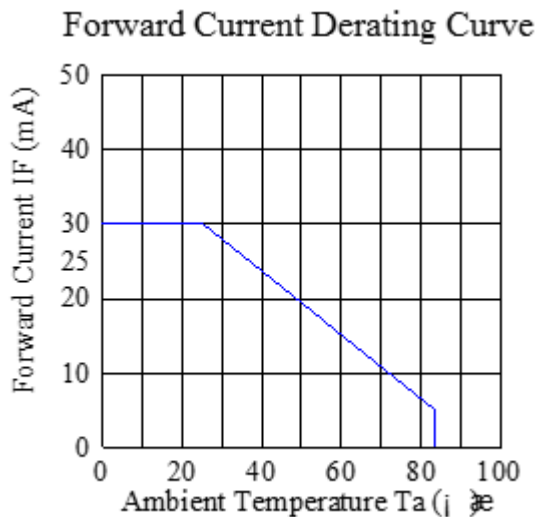
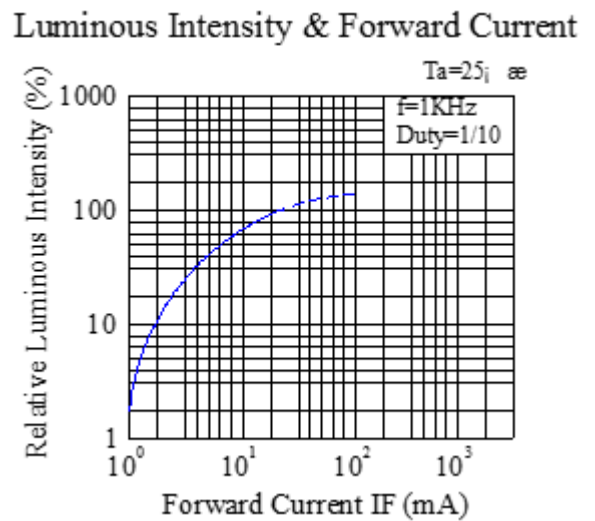
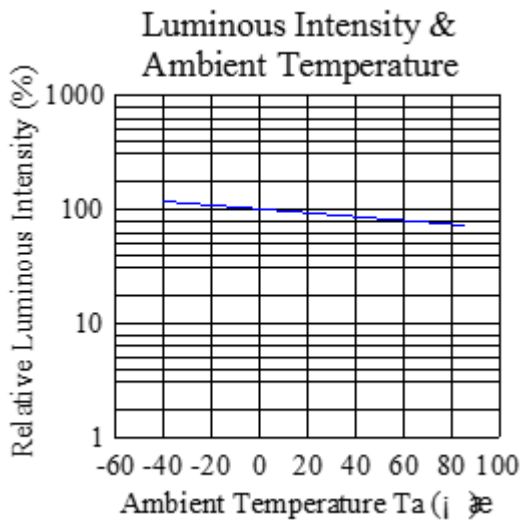
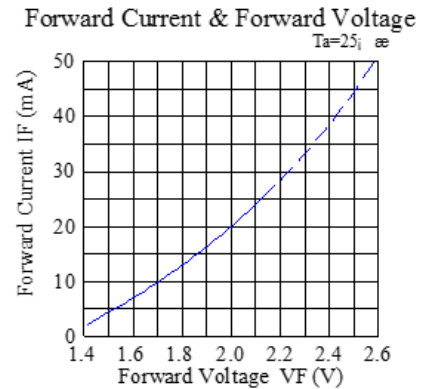
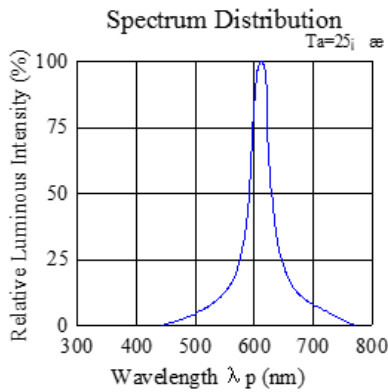
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

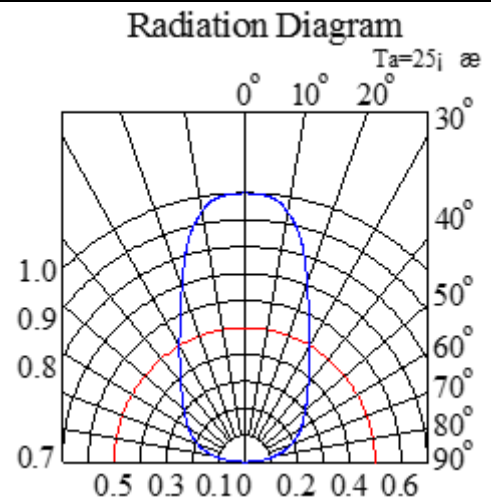
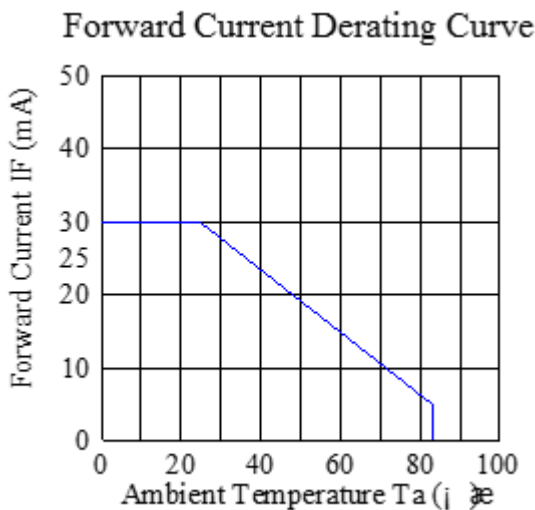
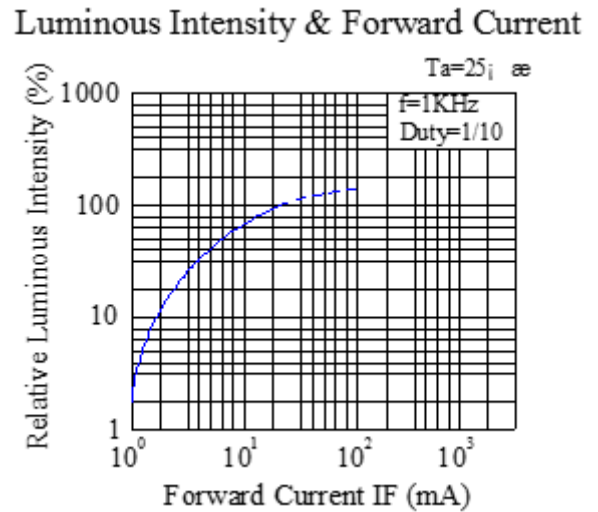
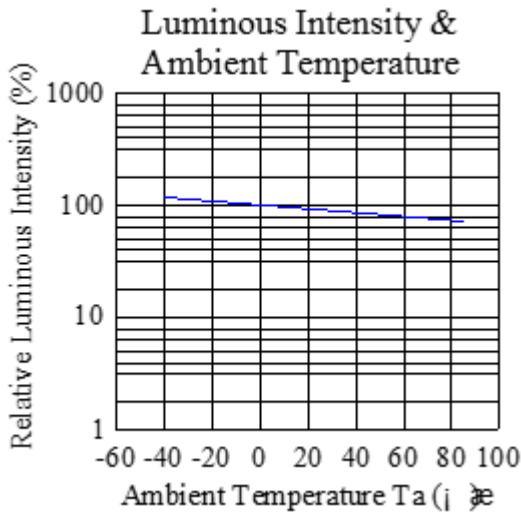
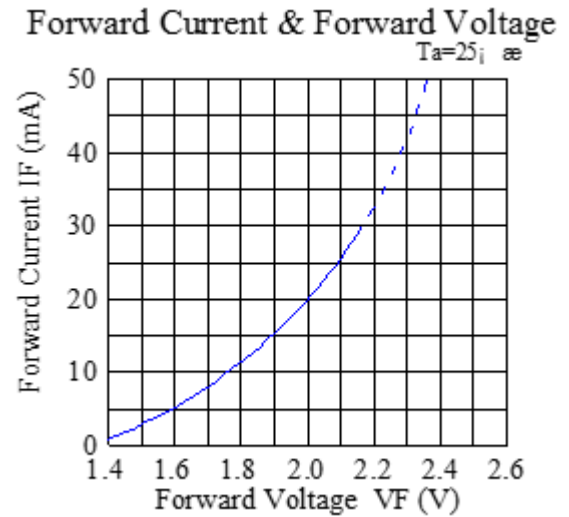
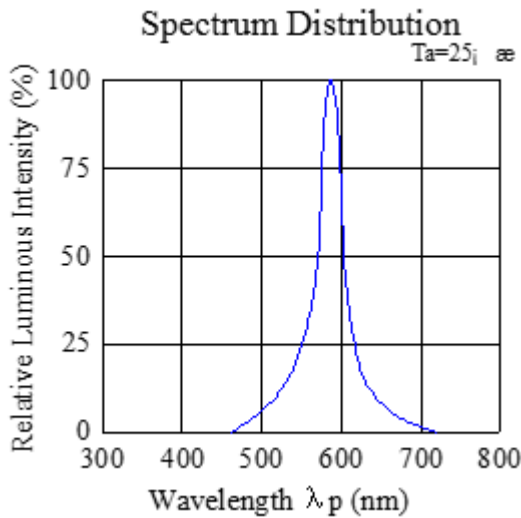
AlGaAs Deep Red



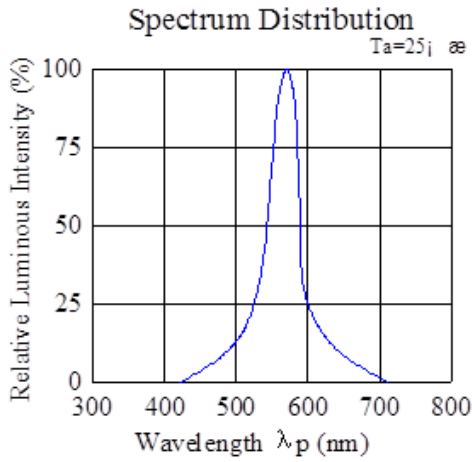
GaAsP Orange



GaAsP Yellow

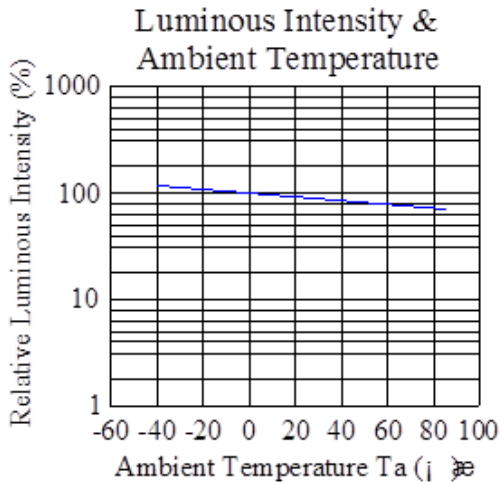
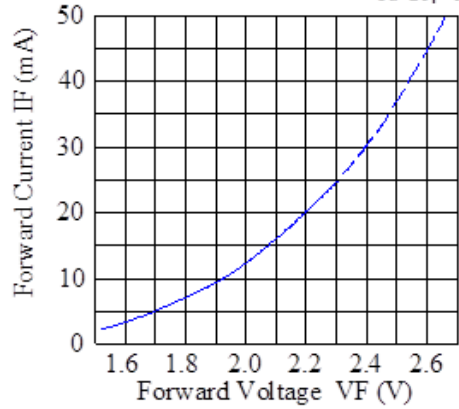


GaP Yellow-Green



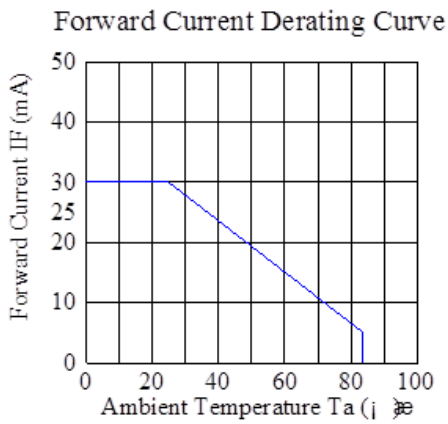
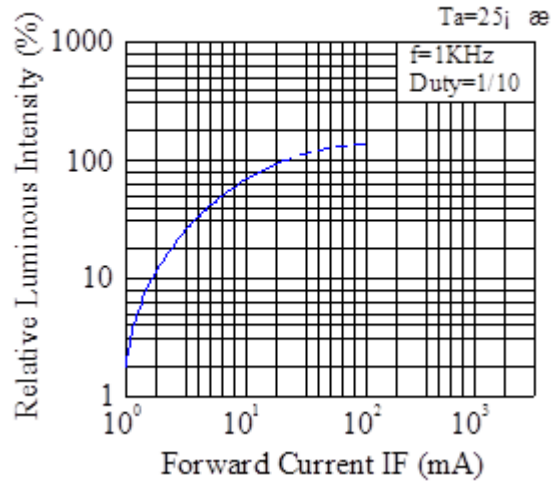
Forward Current & Forward Voltage

$T_a=25j\text{ }^\circ\text{C}$



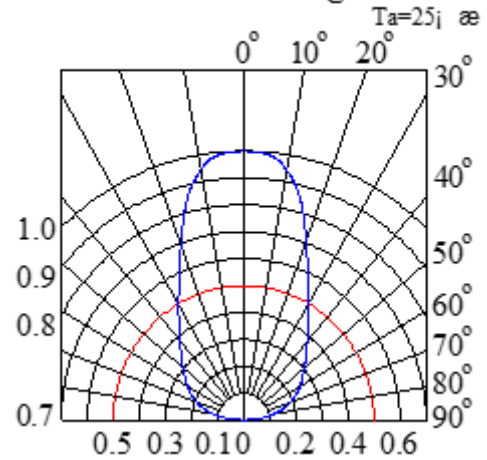
Luminous Intensity & Forward Current

$T_a=25j\text{ }^\circ\text{C}$



Radiation Diagram

$T_a=25j\text{ }^\circ\text{C}$



Labeling

Part No: _____
 Customer P/N: _____
 Item: _____
 Q'ty: _____
 Vf: _____
 Iv: _____
 WI: _____
 Date: _____

Made in China**Ordering Information**

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8SA60D-MP90	QBL8SA60D-MP90	Iv=45mcd typ. @ 20mA, λ _D =640nm typ.	500
QBL8OA60D-MP92	QBL8OA60D-MP92	Iv=20mcd typ. @ 20mA, λ _D =603nm typ.	500
QBL8YA60D-MP93	QBL8YA60D-MP93	Iv=20mcd typ. @ 20mA, λ _D =588nm typ.	500
QBL8YG60D-MP94	QBL8YG60D-MP94	Iv=20mcd typ. @ 20mA, λ _D =570nm typ.	500

Revision History

Description:	Revision #	Revision Date
New Release of QBL8XX60D-MP9Y_series	V1.0	06/24/2016

Disclaimer

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.