

QT-Brightek Lamp with Housing Series

3mm Round Lamp with Housing

Part No.: QBL7XX80D-MP4A_series

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Introduction

Feature:

- Color Diffused lens
- Packaged in bulk pack
- 3mm round TH lamp with housing
- GaAsP technology for OA, YA
- GaP technology for YG
- AlGaAs technology for Deep red (SA)
- Viewing angle: 80° typ.

Description:

These 3mm round type lamps with housing is easy to mount on the panels.

Application:

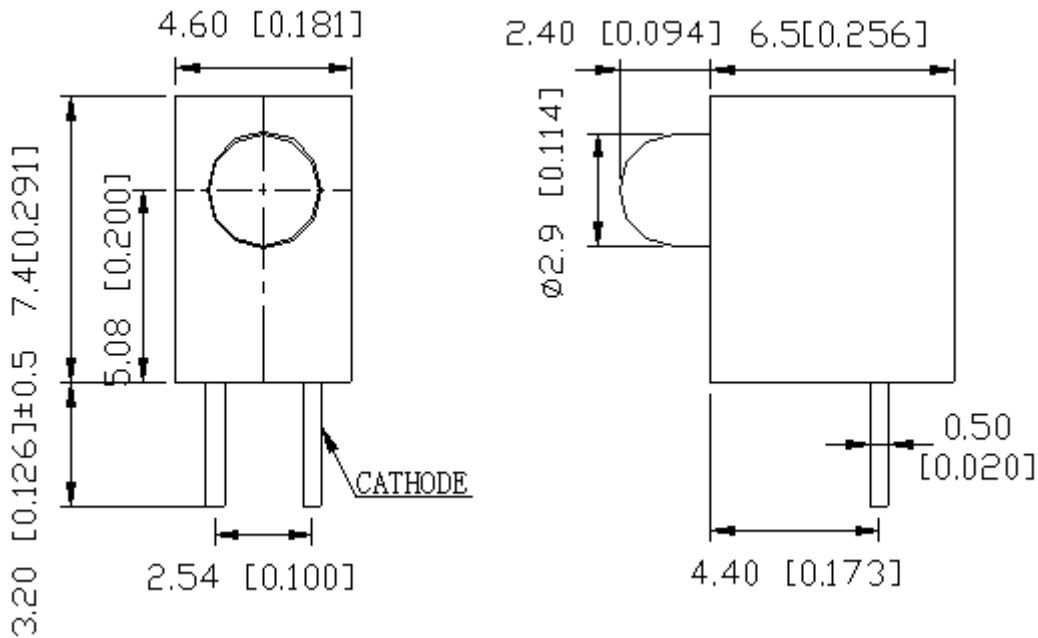
- General purpose indicator application
- Electronic instrument

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.
QBL7SA80D-MP4A	Deep Red	20	1.8	2.6	--	640	--	20	45
QBL7OA80D-MP4A	Orange	20	2.0	2.6	--	603	--	13	30
QBL7YA80D-MP4A	Yellow	20	2.0	2.6	--	588	--	13	20
QBL7YG80D-MP4A	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:

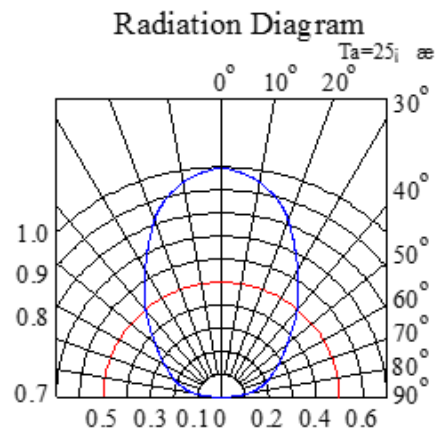
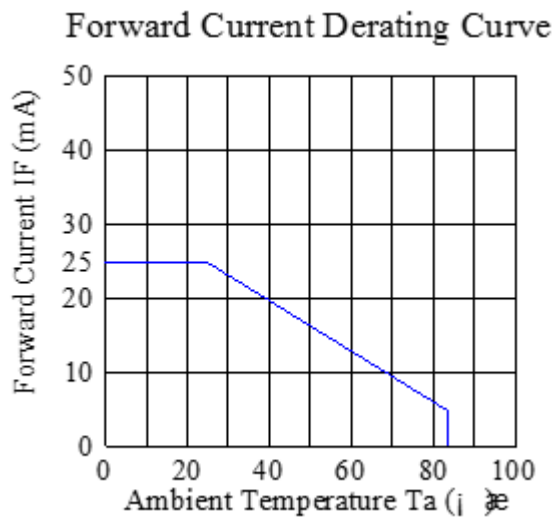
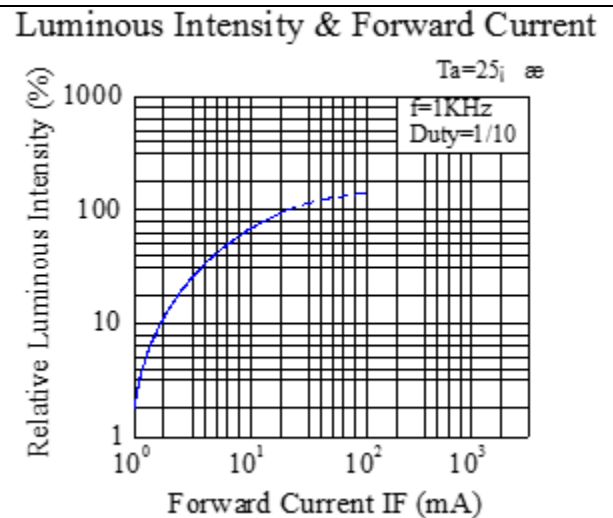
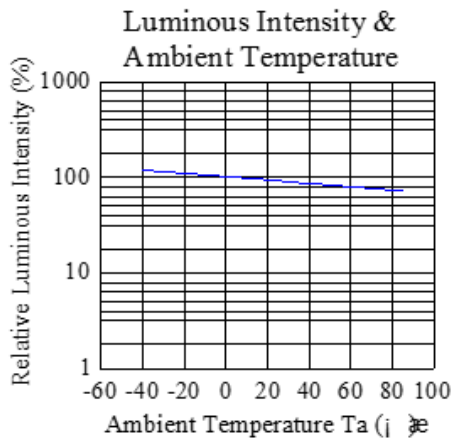
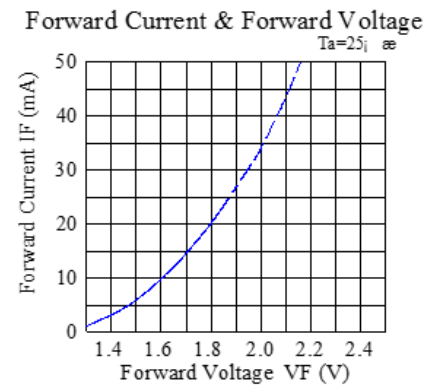
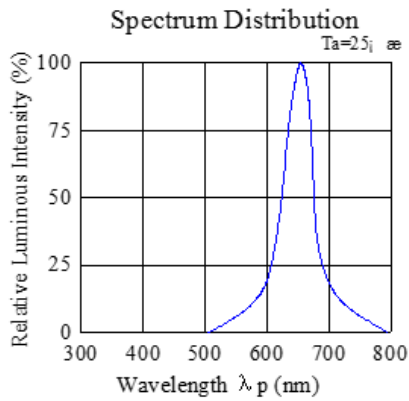
Tolerance of measurement of forward voltage: ±0.1V

Tolerance of measurement of luminous intensity: ±15%

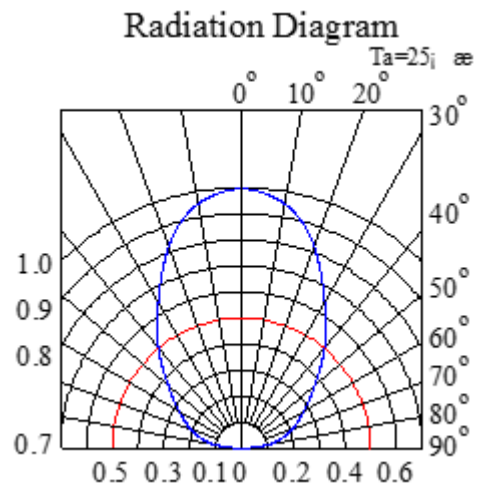
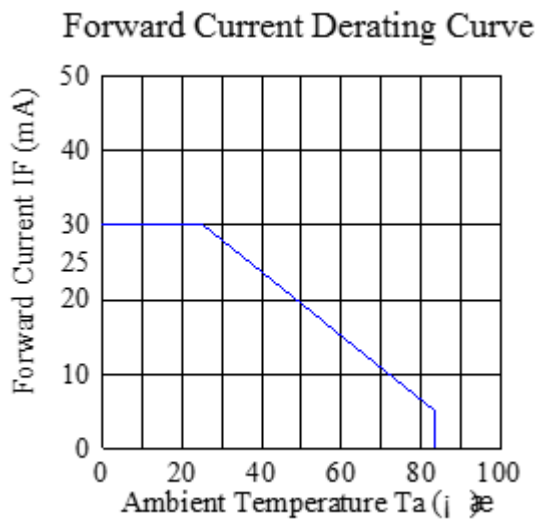
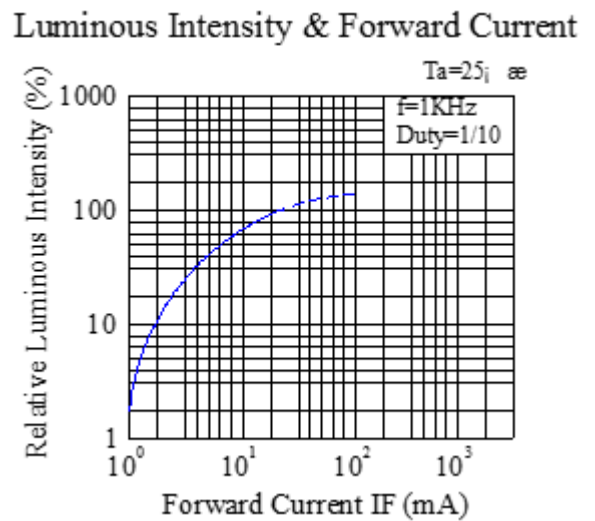
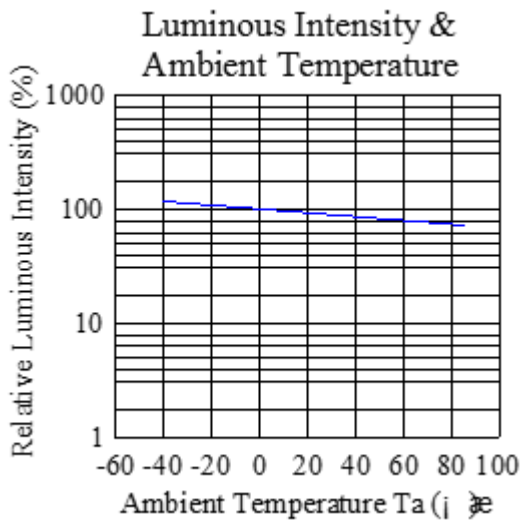
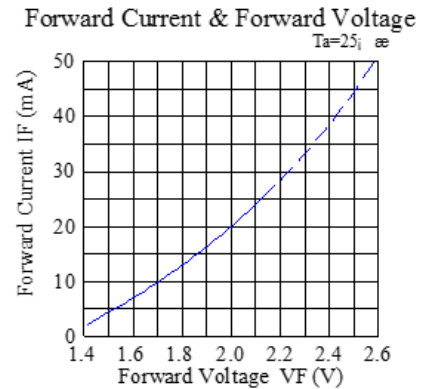
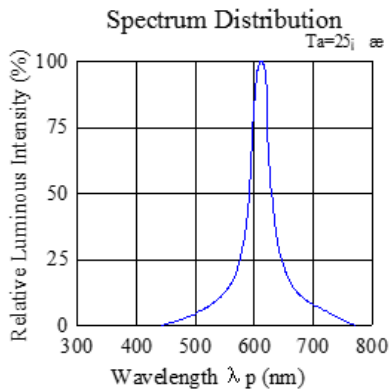
Tolerance of measurement of dominant wavelength: ±2nm

Characteristic Curves

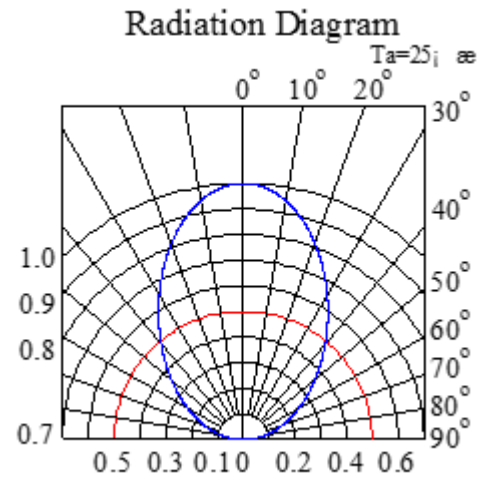
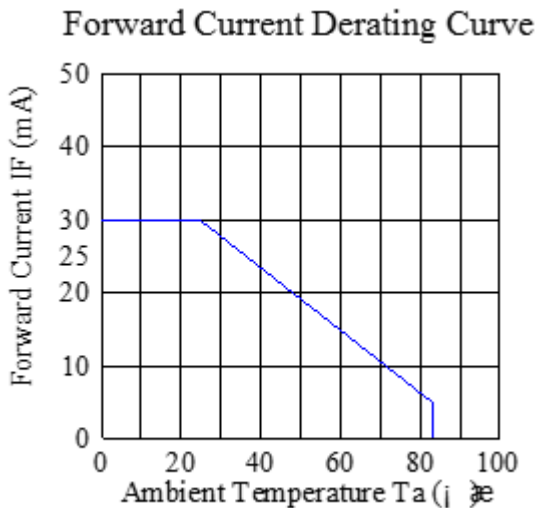
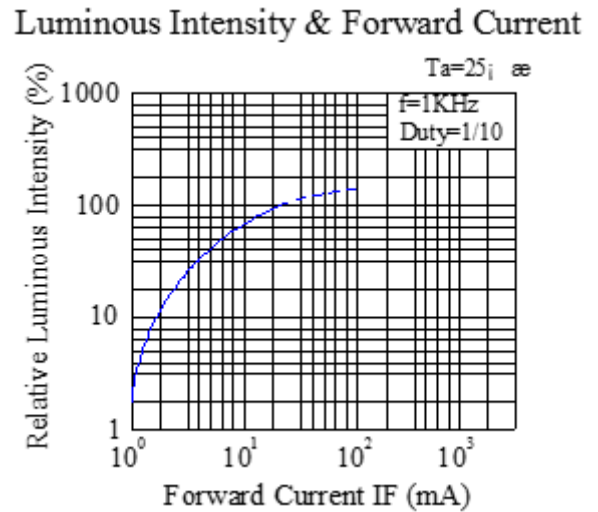
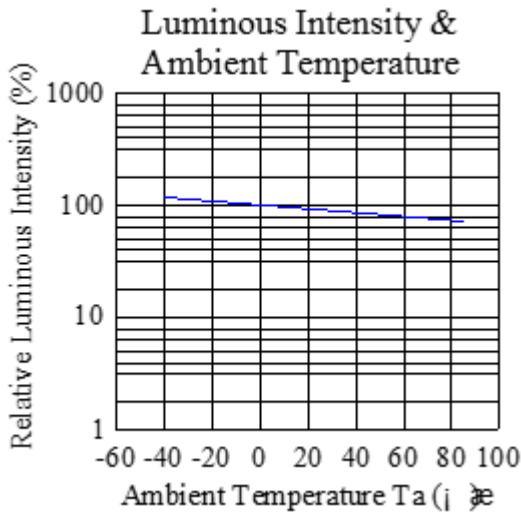
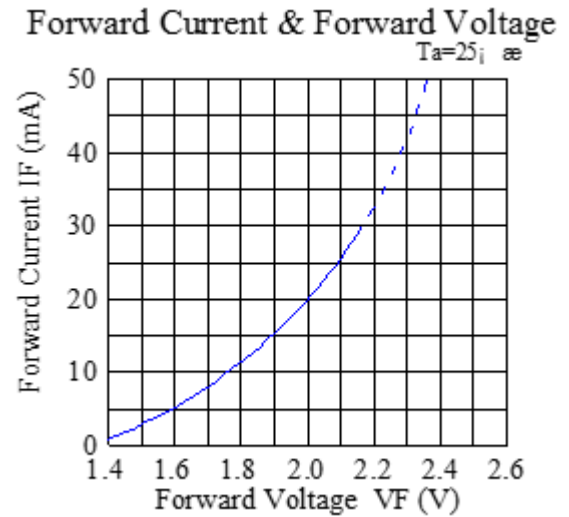
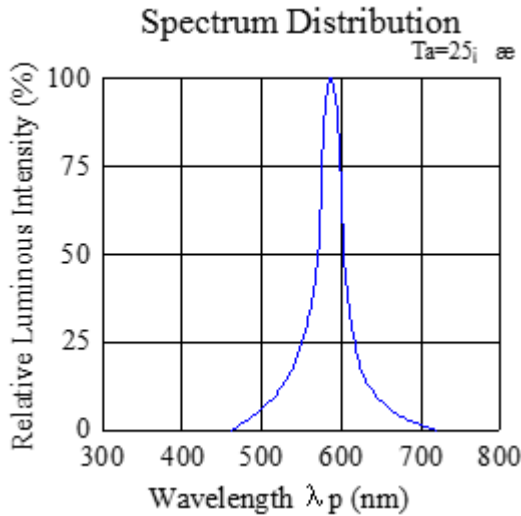
AlGaAs Deep Red



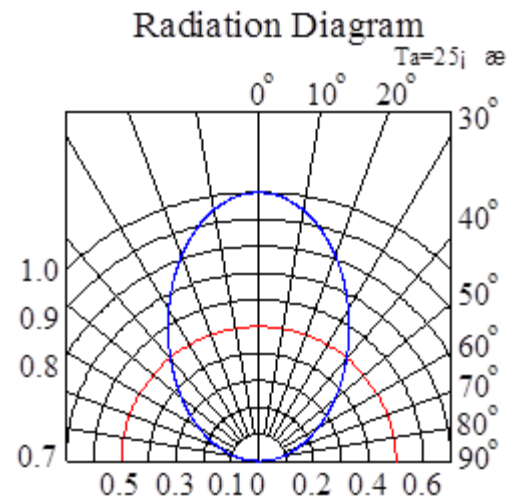
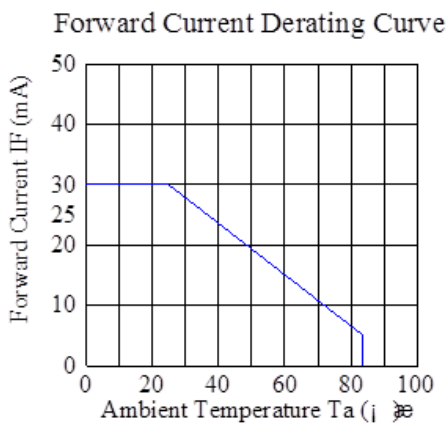
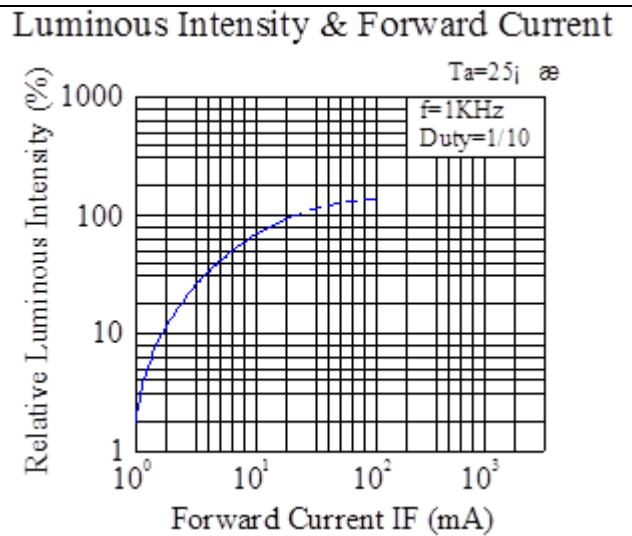
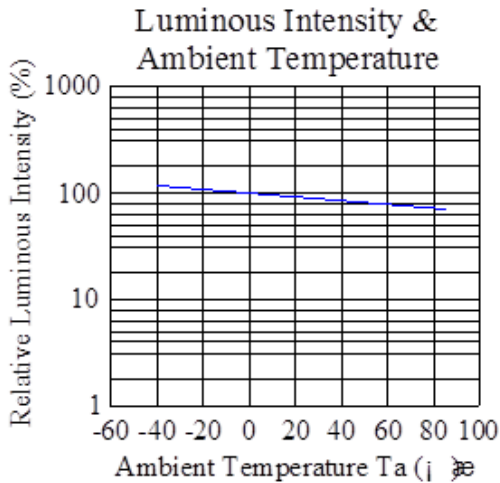
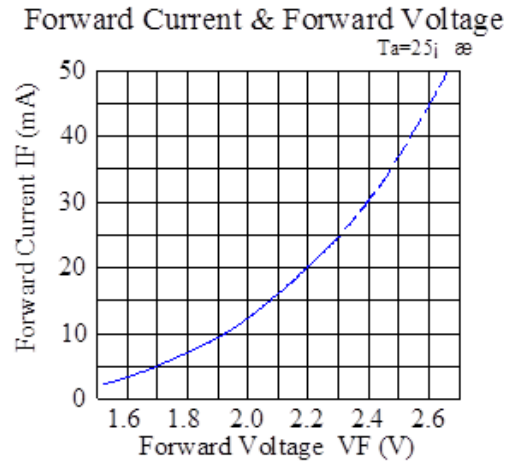
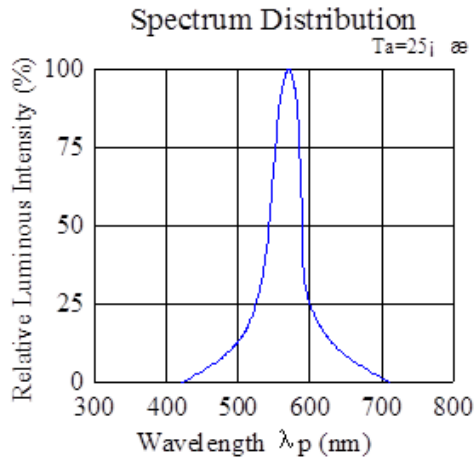
GaAsP Orange



GaAsP Yellow



GaP Yellow-Green



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
QBL7SA80D-MP4A	QBL7SA80D-MP4A	Iv=45mcd typ. @ 20mA, λ _D =640nm typ.	500
QBL7OA80D-MP4A	QBL7OA80D-MP4A	Iv=30mcd typ. @ 20mA, λ _D =603nm typ.	500
QBL7YA80D-MP4A	QBL7YA80D-MP4A	Iv=20mcd typ. @ 20mA, λ _D =588nm typ.	500
QBL7YG80D-MP4A	QBL7YG80D-MP4A	Iv=30mcd typ. @ 20mA, λ _D =570nm typ.	500

Revision History

Description:	Revision #	Revision Date
New Release of QBL7XX80D-MP4A_series	V1.0	05/27/2016

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.