

electrostatic breakdown

About Electrostatic Breakdown

LED products are classified as having a lower electrostatic breakage resistance than other semiconductor products. InGaN devices used in blue and white LEDs are more vulnerable to static electricity than other InGaAlP and GaP (red to yellow-green) devices. The following is an explanation of anti-static measures.

Electrostatic Breakdown Measures

To prevent electrostatic damage to the InGaN devices used in blue and white LEDs, we recommend installing Zener diodes in parallel to protect the LEDs.

Fig. 1: Protection circuit

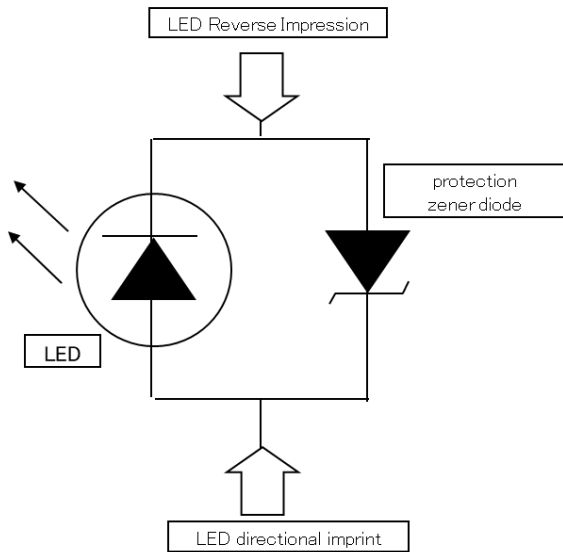
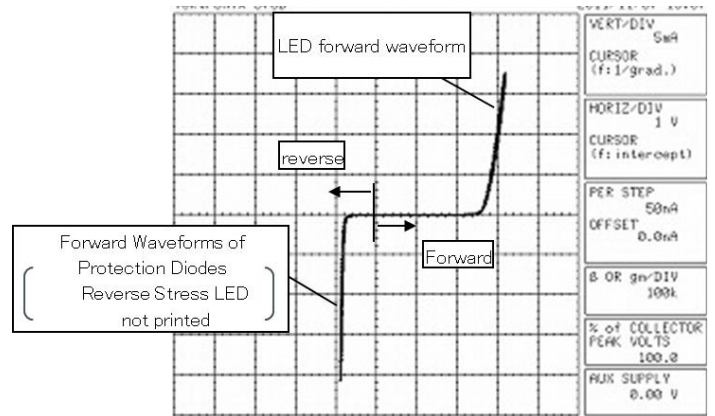


Figure 2: Electrical characteristics



ROHM also offers products with Zener diodes in our LED products.

LED lineup with zener diode

ROHM also offers a range of products with Zener Diod in the LED product line.

品名	外形	発光色	回路	光度(mcd)
SMLZN4WBGUW(A)	 3.5×2.8×1.9t	White		2,400
SMLZ24BN3T(C)		Blue		300
SMLZ24E2N3T (C)		Green		1,140
SMLK28WBJCW	 4.5×2.0×0.6t	White		5,900
SMLVN6RGB1U	 3.5×2.8×0.6t	RGB		R:700 G:1,200 B:400
MSL0104RGBU	 6.9×2.2×2.15t	RGB		R:700 G:1,200 B:400

Notes

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