

Product Announcement

FOR IMMEDIATE ANNOUNCEMENT

Sharp Expands its Family of White LEDs with A New High-brightness Device

GM5BW94320A offers low power consumption

Sharp has announced the expansion of its family of white Light Emitting Diodes (LED) with the new GM5BW94320A which can provide high brightness levels of 3,600 mcd at $I_F = 25$ mA.



This new device is ideally suited for many consumer and commercial applications that traditionally have used conventional incandescent bulbs or other technologies. With package dimensions of just 3.5 mm x 2.8 mm x 1.4 mm, it is also targeted for space-limited applications requiring high brightness levels; such as backlighting (LCDs and Display Illumination as two examples).

Typical performance at 25°C for GM5BW94320A and other members of Sharp’s High Brightness White LED family:

PARAMETER	GM5BW94320A	GM5BW96380A	GM5BW96371A	GM5BW96320A
Emitting Color	White	White	White	White
Forward Voltage (V_F)	3.34 TYP. 4.4 MAX.	3.3 TYP. 3.8 MAX.	3.3 TYP. 3.9 MAX.	3.3 TYP. 3.9 MAX.
Color Coordinates (x, y)	(0.31, 0.31)	(0.31, 0.31)	(0.31, 0.31)	(0.31, 0.31)
Luminous Intensity I_V (mcd)	3,600	2450	2000	1400
I_F (mA)	25	20	20	20
Package (L x W x Thickness)	3.5 x 2.8 x 1.4 mm	3.2 x 2.8 x 1.9 mm	3.2 x 2.8 x 1.9 mm	3.2 x 2.8 x 1.9 mm

Designed for use with automated Lead (Pb)-Free* production lines, the new surface mount device is compatible with reflow soldering processes at temperatures up to 260°C.

Availability:

Sharp’s GM5BW94320A is now in mass production. Specifications are available from your Sharp Distributor or online at www.sharpsma.com.

About Sharp Microelectronics of the Americas

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* The Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive (2002/95/EC). This directive took effect July 1, 2006.