

**Product Announcement****FOR IMMEDIATE ANNOUNCEMENT****Sharp Expands its Family of White LEDs with Two High-brightness Devices****GM5BW96320A and GM5BW96370A offer high brightness with low power consumption**

Sharp has announced the expansion of its family of white Light Emitting Diodes (LED) with two new devices (GM5BW96320A and GM5BW96370A) that can provide high brightness levels of 1400 and 2000 mcd at  $I_F = 20$  mA.

These new devices are ideally suited for many consumer and commercial lighting applications that up to now have used conventional incandescent bulbs or other technologies. With package dimensions of just 3.2 mm × 2.8 mm × 1.9 mm, they are 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:

Part Number	Emitting Color	Forward Voltage ( $V_F$ )		Color Coordinates (X, Y)	Luminous Intensity $I_V$ (mcd)	$I_F$ (mA)	Package (L × W × Thickness)
		TYP.	MAX.				
GM5BW96320A	White	3.3	3.9	(0.31, 0.31)	1400	20	3.2 × 2.8 × 1.9 mm
GM5BW96370A	White	3.3	3.9	(0.31, 0.31)	2000	20	3.2 × 2.8 × 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.

Demand for white LEDs is increasing for general lighting applications. White LEDs offer long operating life, low power consumption, and compact size compared with incandescent and fluorescent lamps

Availability:

Sharp's GM5BW96320A and GM5BW96370A are now in mass production. Specifications are available from your Sharp Distributor or online at [www.sharpsma.com](http://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.