

7x17 Matrix LED Driver

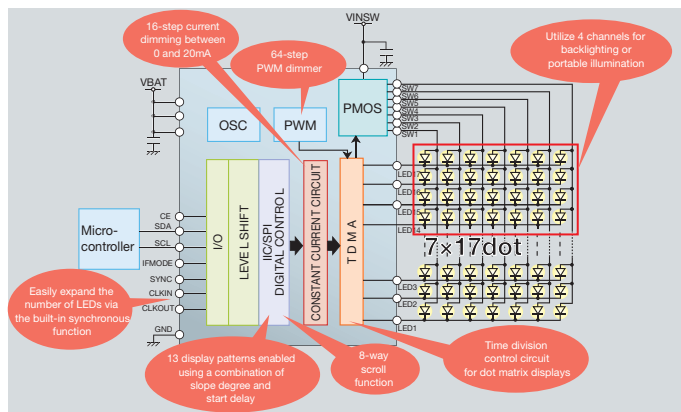
BD26502GUL



Easily enable colorful illumination and information display

The BD26502GUL LED driver integrates a 7ch PMOS high side switch, 17ch constant current circuit, 1/7 time division control circuit, and pattern generator on a single chip. This enables configuration of a 7x17 LED dot matrix driver for text/character display or 39-dot illumination display without increasing microcontroller load. Integrate information and colorful illumination functionality in monochrome displays and illumination, mobile phones, digital consumer products, and home appliances.

Easily configure a 7x17 dot matrix LED display

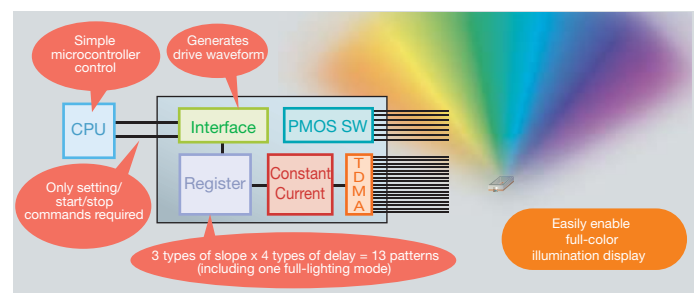


Application examples



13 display patterns and 8-way automatic scroll function reduce microcontroller load

A pattern generator is built in that enables 13 different display patterns using a slope function, significantly lightening microcontroller load. The internal patterns allow random assignment of all dots. Utilizing this function with RGB LEDs enable automatic full-color illumination display. Simple control is possible, unlike conventional systems requiring complex commands from the microcontroller. In addition, 8-way scrolling (up, down, right, left, lower right, lower left, upper right, upper left) is possible, further lightening microcontroller load while enhancing functionality.



Specifications

Part No.	Supply Voltage (V)	LED Connection Method	No. of LEDs for Backlight/Flash	Decorative LED Driver	Other	Control Interface	Package (mm)
BD26502GUL	2.7 to 5.5	Matrix	4-lamp continuous lighting possible	7x17 matrix (20mA max.) 63-step PWM slope function Automatic scroll function	Selectable I ² C bus Slave address	I ² C/SPI bus	VCSP50L4 (4.1x4.1) H=0.55 max.

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