



## Multi-topology Constant Current LED Driver

MBI6665Q is a Buck, Boost and Buck-Boost topology constant-current high-brightness LED driver to provide a reliable design solution for particular power automotive illumination applications.

The output current of MBI6665Q can be programmed by an external resistor and dimmed via either pulse width modulation (PWM) or voltage altering.

While the power is switched on. Thermal shutdown guards the system to be robust and keep the driver away from being damaged which results from LED open-circuited, and other abnormal events. With an error report pin, short circuit conditions can be reported to a possible external mechanism for further control decision making. MBI6665Q is packaged in the thermal-enhanced TSSOP20 for efficient power dissipation.

## MBI6665Q Product Specifications

Items	Spec.	Content
01	Topology	Multi-topology/ Const. Frequency
02	Max. Output Current per Channel	1.5A
03	Max. Sustaining Voltage	71V
04	Supply Voltage	6~65V
05	Switch on Resistance	0.27Ω
06	AEC-Q100	●
07	Dimming Method	Digital/ Analog
08	Protection-LED Open/Short	●
09	Protection-TFB	●
10	Protection-OTP	●
11	Protection - UVLO	●
12	Protection - OCP	●
13	Soft Start-up	●
14	RoHS Compliant Package	TSSOP20
15	Major Applications	Automotive lighting