White LED Backlight Driver

Part No.	Topology	Input Voltage	Frequency	Output Voltage	Max. LED No.	Backlight Type	Brightness Control	Package
HT7936A	Charge Pump	2.8V~5.0V	1.0MHz	5.0V	4	Parallel	PWM	SOT23-6
HT7936B				4.5V	6			

Part No.	Topology	Input Voltage	Frequency	Typical OVP	Maximum Efficiency	Max. LED No.	Backlight Type	Dimming Frequency	Package
HT7937	boost	2.5V~5.5V	1.2MHz	28V	85%	6	Single Series WLED	--	SOT23-6
HT7938	boost	2.6V~5.5V	1.2MHz	39V	88%	10	Single Series WLED	< 1kHz	SOT23-6
HT7938A	boost	2.6V~5.5V	1.2MHz	39V	88%	10	Single Series WLED	Up to 200kHz	SOT23-6
HT7939	boost	2.6V~5.5V	1.2MHz	32V	90%	39	Series/Parallel Mixed	< 1kHz	SOT23-6
HT7939A	boost	2.6V~5.5V	1.2MHz	32V	90%	39	Single Series WLED	Up to 200kHz	SOT23-6

Part No.	Topology	Input Voltage	Switching Frequency	Protection	Maximum Efficiency	Channel Current Matching	Max. LED No.	LED IF	Backlight Type	Brightness Control	Package
HT7943	boost	4.5V~26V	500kHz/1MHz	LED Open/Short OVP, OCP, OTP, UVLO	88%	±1.5%	66	20mA	Up to 11 Series 6ch Constant Current Sink	PWM	20QFN
HT7945	boost	4.5V~26V	500kHz/1MHz	LED Open/Short OVP, OCP, OTP, UVLO	88%	±1.5%	88	20mA	Up to 11 Series 8ch Constant Current Sink	PWM	24QFN
HT7953	boost	10V~26V	200kHz/400kHz	LED Open/Short OVP, OCP, OTP, UVLO	90%	±2.5%	60	80mA	Up to 10 Series 6ch Constant Current Sink	PWM	48TQFP
HT7955	boost	10V~26V	200kHz/400kHz	LED Open/Short OVP, OCP, OTP, UVLO	90%	±2.5%	80	80mA	Up to 10 Series 8ch Constant Current Sink	PWM	48TQFP