

High Voltage Electroluminescent Backlight Driver ICs

Device	Input Voltage Range		Nominal Output Voltage (V)	Maximum Switch Resistance (Ω)	Output Regulation	Max Lamp Size per Device (in ²)	Package Options	Demoboard	Application Notes	Notes
	Low (V)	High (V)								

Single Lamp Drivers

HV816	2.7	5.5	±180	-	Yes	42	16-Lead QFN (K6)	HV816DB2	-	3
HV823	2.0	9.5	±90	6.0	Yes	23	8-Lead SOIC (LG)	HV823DB1	AN-H34	-
HV825	1.0	1.6	±56	15	No	3.0	8-Lead SOIC (LG) 8-Lead MSOP (MG)	HV825DB1	AN-H34	-
HV830	2.0	9.5	±100	4.0	Yes	25	8-Lead SOIC (LG)	HV830DB1	-	-
HV833	1.8	6.5	±90	4.0	Yes	12	8-Lead MSOP (MG)	HV833DB1	AN-H45	-
HV857L	1.8	5.0	±95	6.0	Yes	5.0	8-Lead DFN (K7) 8-Lead MSOP (MG)	HV857LDB1	AN-H63	-
HV857								HV857DB1	AN-H43	
HV859	1.8	5.0	±105	6.0	Yes	5.0	8-Lead DFN (K7) 8-Lead MSOP (MG)	HV859DB1	-	-
HV860	2.5	4.5	±110	6.0	Yes	5.0	12-Lead QFN (K7)	HV860DB1	-	-

Dual Lamp Drivers

HV839	2.0	5.8	±90/ ±100	6.0	Yes	3.5	10-Lead DFN (K6) 10-Lead MSOP (MG)	-	AN-H46	1
HV841	2.0	5.8	±90/ ±100	6.0	Yes	3.5	10-Lead DFN (K6) 10-Lead MSOP (MG)	-	AN-H46	1
HV843	2.0	5.8	±90	10.0	Yes	3.5	10-Lead DFN (K7)	HV843DB1	-	1
HV845	2.0	5.8	±90	10.0	Yes	3.5	12-Lead QFN (K7)	HV845DB1	-	-
HV861	2.5	4.5	±90	7.0	Yes	5.0	16-Lead QFN (K7)	HV861DB1	-	-

Tri-Lamp Drivers

HV856	1.8	6.5	±105	6.0	Yes	3.0	10-Lead DFN (K7)	-	-	2
HV858	1.8	6.5	±95	6.0	Yes	3.0	10-Lead DFN (K7) 10-Lead MSOP (MG)	-	-	2

16-Segment Drivers

HV509	2.0	5.5	±200	N/A	N/A	6.5	32-Lead QFN (K6)	-	-	-
HV528	1.7	5.5	±200	N/A	N/A	6.5	32-Lead QFN (K6)	-	-	-
HV881	1.8	5.5	±170	N/A	Yes	4.6	32-Lead QFN (K7)	-	-	3

Single Inductorless Lamp Drivers

HV850	3.0	4.2	±70	-	Yes	1.5	8-Lead MSOP (MG)	-	-	-
HV852	2.4	5.0	±80	-	Yes	1.5	8-Lead MSOP (MG) 10-Lead DFN (K7)	HV852DB1	-	-
HV853	3.2	5.0	±80	-	Yes	1.5	8-Lead MSOP (MG) 10-Lead DFN (K7)	HV853DB1	-	-

Notes:

- For new cell phone designs use HV861.
- Up to 3.0in² in any combination.
- The boost converter switching FET is external to the device, so its resistance will vary depending upon the application circuit.

High Voltage Electroluminescent Backlight Driver ICs (cont.)

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Offline Driver

HV809	50	200	±50 - ±200	-	N/A	100	8-Lead SOIC (LG) 8-Lead SOIC (SG) w/ heat slug 7-Lead TO-220 (K2)	HV809DB1 HV809DB2	AN-H36	-
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