

High Voltage Electroluminescent Backlight Driver ICs

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

Single Lamp Drivers

HV860	2.5	4.5	±110	6.0	Yes	5.0	12-Lead QFN (K7)	HV860DB1	-	-
HV857L	1.8	5.0	±95	6.0	Yes	5.0	8-Lead DFN (K7)	HV857LDB1	AN-H43	-
HV857	1.8	5.0	±95	6.0	Yes	5.0	8-Lead MSOP (MG)	HV857DB1	AN-H43	1
HV859	1.8	5.0	±105	6.0	Yes	5.0	8-Lead DFN (K7)	HV859DB1	-	-
							8-Lead MSOP (MG)			
HV823	2.0	9.5	±90	6.0	Yes	3.0	8-Lead SOIC (LG)	HV823DB1	AN-H34	-
HV825	1.0	1.6	±56	15	No	1.5	8-Lead SOIC (LG)	HV825DB1	AN-H34	-
							8-Lead MSOP (MG)			
HV826	1.8	3.5	±80	6.0	Yes	1.6	8-Lead SOIC (LG)	-	AN-H38	-
							8-Lead MSOP (MG)			
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	-

Dual Lamp Drivers

HV862	2.5	4.5	±90	7.0	Yes	5.0	16-Lead QFN (K7)	HV862DB1	-	-
HV843	2.0	5.8	±90/±80	10.0	Yes	3.5	10-Lead DFN (K7)	HV843DB1	-	2
HV845	2.0	5.8	±90	10.0	Yes	3.5	12-Lead QFN (K7)	HV845DB1	-	-
HV839/ HV841	2.0	5.8	±90/ ±100	6.0	Yes	3.5	10-Lead DFN (K6)	-	AN-H46	2
							10-Lead MSOP (MG)			

Tri-Lamp Drivers

HV858	1.8	6.5	±95	6.0	Yes	3.0	10-Lead DFN (K7)	-	-	3
HV856	1.8	6.5	±105	6.0	Yes	3.0	10-Lead DFN (K7)	-	-	3

Notes:

1. For new cell phone designs use HV857L or HV860.
2. For new cell phone designs use HV862.
3. Up to 3.0in² in any combination.

High Voltage Electroluminescent Backlight Driver ICs (cont.)

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

Single Inductorless Lamp Drivers

<u>HV853</u>	3.2	5.0	± 80	-	Yes	1.5	8-Lead MSOP (MG)	<u>HV853DB1</u>	-	-
							10-Lead DFN (K7)			
<u>HV852</u>	2.4	5.0	± 80	-	Yes	1.5	8-Lead MSOP (MG)	<u>HV852DB1</u>	-	4
							10-Lead DFN (K7)			
<u>HV850</u>	3.0	4.2	± 70	-	Yes	1.5	8-Lead MSOP (MG)	-	-	4

Offline Driver

<u>HV809</u>	50	200	± 50 - ± 200	-	N/A	100	8-Lead SOIC (LG)	<u>HV809DB1</u> <u>HV809DB2</u>	<u>AN-H36</u>	-
							7-Lead TO-220 (K2)			

Notes:

4. For new cell phone designs use HV853.