

SUPERTEX LED DRIVER INTEGRATED CIRCUITS

Surface Mount Device

Applications:

- Accent lighting - HV9931, CL2
- Automotive - HV9910, HV9911, HV9930, CL2
- Backlighting of flat panel displays - HV9910
- Battery powered LED lamps - HV9911, HV9930, CL6, CL7
- Cellular phones - HV9903
- Chargers - HV9910
- Color LCD Backlighting - HV9903
- Constant current sink - CL2
- DC/DC or AC/DC LED Driver applications:
 - HV9910, HV9930
 - Digital cameras - HV9903
 - Electronic personal organizers - HV9903
 - General purpose constant current source - HV9910, CL2
 - Industrial lighting - HV9921, HV9922, HV9923, HV9925, CL2, CL6, CL7
 - Incandescent replacements - HV9921, HV9922, HV9923, HV9925, CL6, CL7
- LED driver - HV9903, HV9910, HV9911, HV9921, HV9922, HV9930, CL2
- Low power lighting fixtures - HV9921, HV9922, HV9923, HV9925
- MP3 players - HV9903
- PDAs - HV9903
- RGB backlighting LED driver - HV9910, HV9911, HV9930
- Signage and decorative LED lighting - HV9910, HV9921, HV9922, HV9923, HV9925, HV9931, CL2
- Traffic signals and street lamps - HV9931



RoHS Compliant

White LED Driver IC

For quantities greater than listed, call for quote.

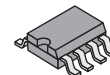
| MOUSER STOCK NO. | | Package | Supply Voltage (V) | Input Voltage (V) | R _{SET} (Ω) | Internally Regulated Voltage (V)(Typ) | LED Current (Min/Max) (mA) | Supply Current (mA)(Max) | Price Each | | |
|------------------|----------------|---------|--------------------|-------------------|----------------------|---------------------------------------|----------------------------|--------------------------|------------|-----|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9903K6-G | MLP-6 | 2.6 - 4.6 | 1.8 - 12.5 | 1.5K | 3.3 | 5.0/40 | 1.6 | 1.06 | .88 | .82 |



MLP-6

Universal High Brightness LED Driver ICs

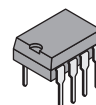
| MOUSER STOCK NO. | | Package | Input DC Supply Voltage (V) | Current For Ext. Circuitry (Max)(mA) | Shut-Down Mode Supply Current (Max)(mA) | Internally Regulated Voltage (V)(Typ) | Curr. Sense Pull-in Thresh Voltage (Min/Max)(mV) | Oscillator Frequency (Min/Max)(kHz) | Price Each | | |
|------------------|-----------------|---------|-----------------------------|--------------------------------------|---|---------------------------------------|--|-------------------------------------|------------|-----|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9910BLG-G | SOIC-8 | 8.0 - 450 | 1 | 1 | 7.5 | 225/275 | 20(1MΩ)/120(226kΩ) | 1.35 | .99 | .95 |



SOIC-8

Switchmode LED Driver IC w/High Current Accuracy

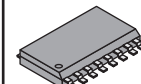
| MOUSER STOCK NO. | | Package | DC Input Voltage (V) | IC Shut-Down Voltage (Typ)(V) | Shut-Down Mode Supply Current (Max)(mA) | Internally Regulated Voltage (Typ)(V) | Undervoltage Lockout Hysteresis (Typ)(mV) | Reference Pin Voltage (Min/Typ/Max)(V) | Price Each | | |
|------------------|----------------|---------|----------------------|-------------------------------|---|---------------------------------------|---|--|------------|------|------|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9911NG-G | SOIC-16 | 0.5 - 250 | 1.25 | 1.5 | 7.75 | 12 | 1.225/1.25/1.275 | 1.58 | 1.31 | 1.21 |



SOIC-16

3-Pin Switchmode LED Driver ICs

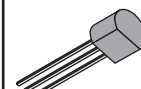
| MOUSER STOCK NO. | | Package | DC Input Voltage (V) | AC Input Voltage (V) | Constant Output Current (mA) | ON Resistance (Ω) | Operating Supply Current (Typ/Max)(uA) | Threshold Current (Min/Max)(mA) | Price Each | | |
|------------------|----------------|---------|----------------------|----------------------|------------------------------|-------------------|--|---------------------------------|------------|-----|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9921N3-G | TO-92 | 20 - 400 | 85 - 264 | 20.0 | 210 | 200/350 | 20.5/25.5 | .78 | .65 | .60 |
| ◆ | 689—HV9921N8-G | SOT-89 | 20 - 400 | 85 - 264 | 20.0 | 210 | 200/350 | 20.5/25.5 | .82 | .68 | .63 |
| ◆ | 689—HV9923N3-G | TO-92 | 20 - 400 | 85 - 264 | 30.0 | 210 | 200/350 | 30.8/38.2 | .80 | .66 | .61 |
| ◆ | 689—HV9923N8-G | SOT-89 | 20 - 400 | 85 - 264 | 30.0 | 210 | 200/350 | 30.8/38.2 | .84 | .70 | .64 |
| ◆ | 689—HV9922N3-G | TO-92 | 20 - 400 | 85 - 264 | 50.0 | 210 | 200/350 | 52/63 | .84 | .70 | .64 |
| ◆ | 689—HV9922N8-G | SOT-89 | 20 - 400 | 85 - 264 | 50.0 | 210 | 200/350 | 52/63 | .87 | .73 | .67 |



TO-92

Programmable-Current LED Lamp Driver IC with PWM Dimming

| MOUSER STOCK NO. | | Package | DC Input Voltage (V) | AC Input Voltage (V) | Programmable Output Current Max (Ω) | ON Resistance (Ω) | Operating Supply Current (Typ/Max)(uA) | Power Dissipation @ 25°C Max (mW) | Price Each | | |
|------------------|----------------|---------|----------------------|----------------------|-------------------------------------|-------------------|--|-----------------------------------|------------|------|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9925SG-G | SOIC-8 | 20 - 400 | 85 - 264 | 50.0 | 200 | 300/500 | 800 | 1.22 | 1.01 | .93 |



TO-92

Hysteric Boost-Buck LED Driver ICs

| MOUSER STOCK NO. | | Package | Input DC Supply Voltage (V) | Current For Ext. Circuitry (Max)(mA) | Shut-Down Mode Supply Current (Max)(mA) | Internally Regulated Voltage (V)(Typ) | PWMD Pull-Down Resistance (Min/Max)(kΩ) | Reference Pin Voltage (Min/Typ/Max)(V) | Price Each | | |
|------------------|----------------|---------|-----------------------------|--------------------------------------|---|---------------------------------------|---|--|------------|------|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9930LG-G | SOIC-8 | 8.0 - 200 | 1 | 1 | 7.5 | 50/150 | 1.212/1.25/1.288 | 1.24 | 1.03 | .95 |



SOT-89

Unity Power Factor LED Lamp Driver ICs

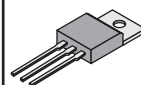
| MOUSER STOCK NO. | | Package | Input DC Supply Voltage (V) | AC Input Voltage (V) | Shut-Down Mode Supply Current (Max)(mA) | Internally Regulated Voltage (V)(Typ) | PWMD Pull-Down Resistance (Min/Max)(kΩ) | PWMD Input Voltage (Low/High)(V) | Price Each | | |
|------------------|----------------|---------|-----------------------------|----------------------|---|---------------------------------------|---|----------------------------------|------------|------|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—HV9931LG-G | SOIC-8 | 8.0 - 450 | 85 - 264 | 1 | 7.5 | 50/150 | 1.0(Max)/2.4(Min) | 1.24 | 1.03 | .95 |



TO-252

Temperature Compensated Constant Current LED Driver ICs

| MOUSER STOCK NO. | | Package | DC Input Voltage (V) | Current Regulation (Typ)(mA) | Maximum Operating Voltage (V) | Dynamic Resistance (Typ)(Ω) | Power Dissipation @ TA = 25°C (W) | Temperature Coefficient %/°C | Price Each | | |
|------------------|---------------|---------|----------------------|------------------------------|-------------------------------|-----------------------------|-----------------------------------|------------------------------|------------|-----|-----|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—CL2K4-G | TO-252 | 5.0 - 90 | 20 | 100 | 300k | 2.0 | 0.01 | .70 | .58 | .54 |
| ◆ | 689—CL2N8-G | SOT-89 | 5.0 - 90 | 20 | 100 | 300k | 1.3 | 0.01 | .49 | .41 | .38 |
| ◆ | 689—CL2N3-G | TO-92 | 5.0 - 90 | 20 | 100 | 300k | 0.6 | 0.01 | .44 | .36 | .34 |



TO-220

Linear Fixed Constant Current LED Driver ICs

| MOUSER STOCK NO. | | Package | Input DC Supply Voltage (V) | AC Input Voltage (V) | Shut-Down Mode Supply Current (Max)(mA) | Internally Regulated Voltage (V)(Typ) | PWMD Pull-Down Resistance (Min/Max)(kΩ) | PWMD Input Voltage (Low/High)(V) | Price Each | | |
|------------------|---------------|---------|-----------------------------|----------------------|---|---------------------------------------|---|----------------------------------|------------|------|------|
| Mfr. | Mfr. Part No. | | | | | | | | 1 | 100 | 500 |
| ◆ | 689—CL6K4-G | TO-252 | 6.5 - 28 | 3.0/5.0/10 | 90/100/110 | 1.3 | 40 | 120/135/150 | 1.52 | 1.26 | 1.17 |
| ◆ | 689—CL6N5-G | TO-220 | 6.5 - 28 | 3.0/5.0/10 | 90/100/110 | 2.5 | 62 | 120/135/150 | 1.62 | 1.34 | 1.24 |