



Light is uniform

DURIS[®] E Family

High efficacy LEDs for more efficient lighting

Light is **OSRAM**

OSRAM
Opto Semiconductors

Perfect homogeneity and high efficiency for cost sensitive applications

The DURIS® E, a low- and mid-power LED portfolio from OSRAM Opto Semiconductors, is ideal for efficient and homogeneous lighting applications. The combination of a small/ medium lumen package, a wide beam angle and a compact footprint is perfect for uniform light distribution.



Advantages

Benefit from homogeneous illumination and exceptional cost-effectiveness

The DURIS® E meets the user requirements for cost sensitive applications. That's why they are the preferred choice for replacing fluorescent tubes or light bulbs in the field of home, shop and office.

Applications in indoor general lighting, e.g. Residential, Office

- Linear lights including fluorescent replacement lamps
- Area lights including troffer and panel lights
- Signage e.g. channel letters
- Industry applications e.g. white goods



Features DURIS® E 2

- Smallest E series footprint of 2.0 mm x 1.6 mm
- Viewing angle of 120° ideal for homogenous linear light distribution
- Very compact size with solder cost saving and space saving
- Cost optimized with high value in lumen per dollar

DURIS® E 2

| Type | Typ. $R_{th JS et}$ (K/W) | Available CCT range (K) | CRI min. | Typ. Luminous flux (lm) | Typ. Efficacy (lm/W) | Max. Current (mA) | Typ. Binning current (mA) | Typ. Binning temperature (°C) | Typ. Binning voltage (V) | Binning CCT (K) |
|--------------|---------------------------|-------------------------|----------|-------------------------|----------------------|-------------------|---------------------------|-------------------------------|--------------------------|-----------------|
| GW JBLMS2.EM | 35 | 2,700–6,500 | 80 | 25.0 | 127 | 100 | 65 | 25 | 3.10 | 4,000 |



Features DURIS® E 2835

- Footprint of 2.8 mm × 3.5 mm
- Value package with optimum lumen package to retrofit and linear light
- Viewing angle of 120° ideal for homogenous linear light distribution
- With high value in lumen per dollar

DURIS® E 2835

| Type | Typ. $R_{th,JS\ el}$ (K/W) | Available CCT range (K) | CRI min. | Typ. Luminous flux (lm) | Typ. Efficacy (lm/W) | Max. Current (mA) | Typ. Binning current (mA) | Typ. Binning temperature (°C) | Typ. Binning voltage (V) | Binning CCT (K) |
|--------------|----------------------------|-------------------------|----------|-------------------------|----------------------|-------------------|---------------------------|-------------------------------|--------------------------|-----------------|
| GW JTLMS1.EM | 45 | 2,700–6,500 | 80 | 27 | 150 | 120 | 60 | 25 | 3.0 | 5,000 |
| GW JTLRS1.EM | 13 | 2,700–6,500 | 80 | 113 | 118 | 120 | 100 | 25 | 9.6 | 3,000 |



Features DURIS® E 3

- Footprint of 3.0 mm × 1.4 mm
- Compact light source in cost-effective PLCC package
- Stable brightness over lifetime
- Viewing angle of 120° ideal for homogenous linear light distribution
- Mid efficacy device with industrial standard footprint

DURIS® E 3

| Type | Typ. $R_{th,JS\ el}$ (K/W) | Available CCT range (K) | CRI min. | Typ. Luminous flux (lm) | Typ. Efficacy (lm/W) | Max. Current (mA) | Typ. Binning current (mA) | Typ. Binning temperature (°C) | Typ. Binning voltage (V) | Binning CCT (K) |
|-----------------|----------------------------|-------------------------|----------|-------------------------|----------------------|-------------------|---------------------------|-------------------------------|--------------------------|-----------------|
| LCW/LUW JNSH.EC | 100 | 2,400–6,500 | 80 | 7.9 | 130 | 30 | 20 | 25 | 3.05 | 5,000 |
| LCW/LUW JNSH.PC | 100 | 3,000–6,500 | 70 | 8.6 | 141 | 30 | 20 | 25 | 3.05 | 5,000 |
| GW JCLMS1.EC | 41 | 2,700–6,500 | 80 | 27.0 | 134 | 150 | 65 | 25 | 3.10 | 5,000 |
| GW JJCLPS2.EM | 24 | 2,700–6,500 | 80 | 30.0 | 153 | 150 | 65 | 25 | 3.02 | 5,000 |



Features DURIS® E 5

- Footprint of 5.6 mm × 3.0 mm
- Long lifetime even at high temperatures and high currents (L70/B50 > 50,000 h at $T_j = 120^\circ\text{C}$ and $I_f = 180\text{ mA}$)
- Viewing angle of 120° ideal for homogenous linear light distribution
- High efficacy device with industrial standard footprint

DURIS® E 5

| Type | Typ. $R_{th,JS\ el}$ (K/W) | Available CCT range (K) | CRI min. | Typ. Luminous flux (lm) | Typ. Efficacy (lm/W) | Max. Current (mA) | Typ. Binning current (mA) | Typ. Binning temperature (°C) | Typ. Binning voltage (V) | Binning CCT (K) |
|--------------|----------------------------|-------------------------|----------|-------------------------|----------------------|-------------------|---------------------------|-------------------------------|--------------------------|-----------------|
| GW JDSMS1.EC | 24 | 2,400–6,500 | 80 | 49.0 | 130 | 180 | 120 | 25 | 3.15 | 5,000 |
| GW JDSMS1.PC | 24 | 3,000–6,500 | 70 | 52.0 | 138 | 180 | 120 | 25 | 3.15 | 5,000 |
| GW JDSMS1.CC | 24 | 2,700–4,000 | 90 | 43.0 | 114 | 180 | 120 | 25 | 3.15 | 4,000 |
| GW JDSRS1.EC | 16 | 2,700–6,500 | 80 | 56.0 | 156 | 180 | 120 | 25 | 3 | 5,000 |
| GW JDSRS1.CC | 16 | 2,700–4,000 | 90 | 47.0 | 131 | 180 | 120 | 25 | 3 | 4,000 |
| GW JDSTS2.EM | 9.5 | 2,700–6,500 | 80 | 34.0 | 184 | 180 | 65 | 25 | 2.85 | 5,000 |

For more technical values, please visit our product pages www.osram-os.com



DURIS® E on the internet:
www.osram-os.com/duris-e

For further information on the available products please visit our product catalog at <http://catalog.osram-os.com>

More information about LED in General Lighting:

LED Light Site
ledlight.osram-os.com

LED Light for you Network
www.ledlightforyou.com



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