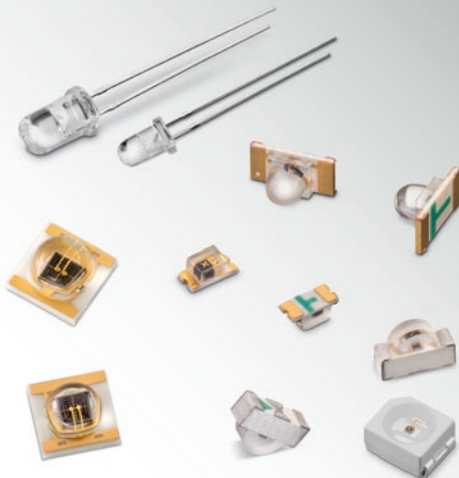




DESIGN KIT

Infrared LEDs



SIZE:

3 mm / 5 mm / 0603 / 1206 / 1104 / 3528 / 3535

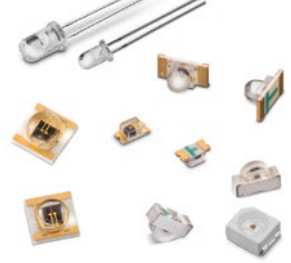
TECHNICAL DATA:

THT Infrared
Infrared Chip LED
Infrared Top LED
Infrared Ceramic

Order Code 154 150
Version 1.0

DESIGN KIT

Infrared LEDs



| 3 mm | 0603 | 1104 | 3528 | 3535 |
|---|---|---|---|---|
| 154 003 85A 3590 | 154 060 85B A300 | 154 114 85A A370 | 154 141 85B A210 | 154 353 85A 9050 |
| λ_{peak} @ 50 mA: 850 nm | λ_{peak} @ 20 mA: 850 nm | λ_{peak} @ 20 mA: 850 nm | λ_{peak} @ 50 mA: 850 nm | λ_{peak} @ 1000 mA: 850 nm |
| I_e typ. @ 50 mA: 60 mW/sr | I_e typ. @ 20 mA: 2 mW/sr | I_e typ. @ 20 mA: 2 mW/sr | I_e typ. @ 50 mA: 9 mW/sr | I_e typ. @ 1000 mA: 350 mW/sr |
| V_f typ. @ 50 mA: 1.5 V | V_f typ. @ 20 mA: 1.4 V | V_f typ. @ 20 mA: 1.4 V | V_f typ. @ 50 mA: 1.5 V | V_f typ. @ 1000 mA: 2.2 V |
| $2\theta_{50\%}$ typ. @ 50 mA: 35 ° | $2\theta_{50\%}$ typ. @ 20 mA: 130 ° | $2\theta_{50\%}$ typ. @ 20 mA: 130 ° | $2\theta_{50\%}$ typ. @ 50 mA: 120 ° | $2\theta_{50\%}$ typ. @ 1000 mA: 90 ° |
| 154 003 94A 3590 | 154 060 94B A500 | 154 114 94A A570 | 154 141 94B A210 | 154 353 94A 9050 |
| λ_{peak} @ 50 mA: 940 nm | λ_{peak} @ 20 mA: 940 nm | λ_{peak} @ 20 mA: 940 nm | λ_{peak} @ 50 mA: 940 nm | λ_{peak} @ 1000 mA: 940 nm |
| I_e typ. @ 50 mA: 30 mW/sr | I_e typ. @ 20 mA: 0.8 mW/sr | I_e typ. @ 20 mA: 1 mW/sr | I_e typ. @ 50 mA: 8 mW/sr | I_e typ. @ 1000 mA: 300 mW/sr |
| V_f typ. @ 50 mA: 1.3 V | V_f typ. @ 20 mA: 1.2 V | V_f typ. @ 20 mA: 1.2 V | V_f typ. @ 50 mA: 1.4 V | V_f typ. @ 1000 mA: 1.9 V |
| $2\theta_{50\%}$ typ. @ 50 mA: 35 ° | $2\theta_{50\%}$ typ. @ 20 mA: 150 ° | $2\theta_{50\%}$ typ. @ 20 mA: 150 ° | $2\theta_{50\%}$ typ. @ 50 mA: 120 ° | $2\theta_{50\%}$ typ. @ 1000 mA: 90 ° |
| 5 mm | 1206 dome | | | |
| 154 005 85A 3590 | 154 120 85A 3060 | | | 154 353 85A A350 |
| λ_{peak} @ 50 mA: 850 nm | λ_{peak} @ 20 mA: 850 nm | | | λ_{peak} @ 1000 mA: 850 nm |
| I_e typ. @ 50 mA: 85 mW/sr | I_e typ. @ 20 mA: 20 mW/sr | | | I_e typ. @ 1000 mA: 250 mW/sr |
| V_f typ. @ 50 mA: 1.5 V | V_f typ. @ 20 mA: 1.4 V | | | V_f typ. @ 1000 mA: 2.2 V |
| $2\theta_{50\%}$ typ. @ 50 mA: 35 ° | $2\theta_{50\%}$ typ. @ 20 mA: 30 ° | | | $2\theta_{50\%}$ typ. @ 1000 mA: 130 ° |
| 154 005 94A 3590 | 154 120 94A 3060 | | | 154 353 94A A350 |
| λ_{peak} @ 50 mA: 940 nm | λ_{peak} @ 20 mA: 940 nm | | | λ_{peak} @ 1000 mA: 940 nm |
| I_e typ. @ 50 mA: 30 mW/sr | I_e typ. @ 20 mA: 5 mW/sr | | | I_e typ. @ 1000 mA: 220 mW/sr |
| V_f typ. @ 50 mA: 1.3 V | V_f typ. @ 20 mA: 1.2 V | | | V_f typ. @ 1000 mA: 1.9 V |
| $2\theta_{50\%}$ typ. @ 50 mA: 35 ° | $2\theta_{50\%}$ typ. @ 20 mA: 30 ° | | | $2\theta_{50\%}$ typ. @ 1000 mA: 130 ° |

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