

Product Selector

Laser Driver ICs

| | IC-HB | IC-HG | IC-HK IC-HKB | IC-HT IC-HTP | IC-NZ | IC-NZN IC-NZP | IC-VJ IC-VJZ | IC-WJB | IC-WJ IC-WJZ | IC-WK IC-WKL | IC-WKN IC-WKM IC-WKP |
|----------------------------|--|---|--|---|--|---|---|---|---|--|--|
| | Switch/Sink | | | CW/TX Power Controller | | | | | | CW Power Controller | |
| Supply Voltage | 3.5 to 5.5 V | 3 to 5.5 V | 3.5 to 5.5 V B: 3 to 5 V (15 V) | 2.8 to 11 V | 3.5 to 5.5 V | 3 to 5.5 V | 5 V | 2.7 to 6 V | 5 V | 2.4 to 6 V | 3.6 to 15 V |
| LD Drive | 3 x 65 mAdc, 3 x 0.3 Apeak | 6 x 500 mA | 2 x 150 mAdc, 2 x 0.7 Apeak | 2 x 750 mAdc, or 1 x 1500 mA | 3 x 100 mAdc, 3 x 700 mApeak | 300 mA | 250 mA | 100 mA | 250 mA | 70 mA | 350 mA |
| Operation | CW to 155 MHz (tr/ff 1ns) | CW to 200 MHz (tr/ff < 1ns) | CW to 155 MHz (tr/ff 1ns) | CW to 0.2 kHz | CW to 155 MHz (tr/ff 1.5 ns) | CW to 155 MHz (tr/ff 1.5 ns) | 1 to 200 kHz | CW to 300 kHz | CW to 300 kHz | CW | CW |
| Adjustable APC | n/a | n/a | n/a | logarithmic configuration | peak value (4 levels) | peak value, averaging | averaging | averaging | averaging | averaging | averaging |
| Monitor Current | | | | 2.9 µA to 3.5 mA | | | 50 µA to 500 µA 150 µA to 1.5 mA | 150 µA to 1.5 mA | 50 µA to 500 µA 150 µA to 1.5 mA | 10 µA to 2.5 mA | 2.5 µA to 6.2 mA |
| Protective Circuits | | | | | | | | | | | |
| Reverse Polarity | - | - | - | - | - | - | - | - | - | • | • |
| Burst/Transients | - | - | - | • | • | • | • | • | • | • | • |
| Overcurrent | - | - | - | configurable limit | reset | • | - | - | - | reset | reset |
| Thermal Shutdown | • | • | • | • | • | • | • | • | • | • | • |
| Undervoltage Lockout | - | - | - | • | • | • | • | • | • | - | - |
| LD Pinout | n/a | n/a | n/a | N, M (iC-HT) P (iC-HTP) | N, M, P | N, M, P | N, M | N, M | N, M (P) | N, M, P | N M P |
| OTR °C | -25..85 | -25..85 | -25..85 | -40..85 | -20..90 | -20..85 | -25..90 | -25..90 | -25..90 | -40..85 | -40..85 |
| Package | QFN24 4x4 | QFN28 5x5 | SO8Ntp MSOP8tp | QFN28 5x5 | QFN28 5x5 | QFN24 4x4 | SO16N | SO8N MSOP8 | SO8N MSOP8 | MSOP8 | SO8Ntp DFN10 4x4 |
| Special Features | High-speed spike-free switching, LVDS inputs, current monitor output | High-speed spike-free switching, LVDS inputs | High-speed spike-free switching | SPI/PC interface, pin configurable, monitoring, ACC, APC, standby, safety features | Safety monitor diode input, single failure proof, self test | APC or ACC | RC Oscillator, duty cycle 50%, soft-start | Input watchdog, soft-start | Input watchdog, soft-start | Quick start, 1% accuracy | 3% accuracy, low Rth package |
| Applications | Laser printers | Pump lasers, Laser projection, Laser TV, LED drivers, Camera lighting, TOF lighting, LIDAR lighting | Laser data transmission, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines) | Laser pointer, Pump laser, laser diode modules, embedded laser diode controllers, safety related laser controller | Laser data transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines) | Laser data transmission, bar-code readers, triangulation sensors, displacement sensor, safety light scanners (area-guarding systems, safeguarding access to machines) | Triangulation sensors, displacement sensors | Leveling lasers, laser alignment tools, laser pointers, bar-code readers, triangulation sensors | Laser alignment tools, laser data transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines) | Leveling lasers, laser alignment tools, laser pointers, bar-code readers | Leveling lasers, laser alignment tools, laser pointers, bar-code readers |

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Application Notes for Laser Driver