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Product Specifications of Renesas Electronics' New R2A50106FT LED Driver IC

- On-chip 8-ch constant-current driver
 - Constant-current driver current value: Max. 160 mA
 - Ability to modify constant-current setting with external resistor

- Brightness adjustment functions
 - Analog brightness adjustment function: SO pin voltage setting (256 gradations) by 8-bit DAC according to serial data input
 - PWM brightness adjustment function: 12-bit PWM duty setting (4,096 gradations) according to serial data input

- On-chip step-up DC-DC converter control circuit (step-up control)

- On-chip protection functions
 - LED open detection
 - LED shorted detection
 - Overheating detection
 - DC-DC converter output overvoltage detection
 - DC-DC converter output overload detection

- Package: Underside die pad exposed 48-pin QFP (body size: 7 mm × 7 mm)