

Title (en)

Circuit for LED with temperature dependent current control

Title (de)

Schaltkreis für Leuchtdioden mit temperaturabhängiger Stromregelung

Title (fr)

Circuit pour LED avec commande de courant dépendent de la temperature

Publication

EP 1278402 B1 20050511 (DE)

Application

EP 02011285 A 20020522

Priority

DE 10134246 A 20010718

Abstract (en)

[origin: EP1278402A1] The device has a regulator, demand value generator, temperature sensor, a subtracter with a demand current input that drives the regulator, a switch-off device that varies the current demand so the diode current is negligible if a switch-off signal is applied and a controller with a temperature connection, an temperature-dependent output to the subtracter and a temperature-dependent second output to the switch-off input of the switch-off device. The device has a regulator (1), demand value generator (5) and temperature measurement device (4), a subtracter (6) with the demand current value as input that drives the regulator, a switch-off device (7) that varies the current demand value so the diode current is negligible when a switch-off signal is applied and a controller (8) with connections for a temperature measurement parameter, a first output to the subtracter dependent on the temperature measurement value and a temperature-dependent second output to the switch-off input of the switch-off device.

IPC 1-7

H05B 37/02

IPC 8 full level

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CPC (source: EP US)

H05B 45/18 (2020.01 - EP US)

Cited by

DE102009003632A1; US8733966B2; DE102009003632B4; DE102014114389A1; US9719658B2; US7414370B2; WO2010142006A3; WO2014012060A1; WO2007092355A1; US7626346B2; EP1874097A1; US9354620B2; US10523054B2; US8659235B2; US9081555B2

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