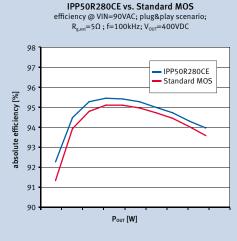


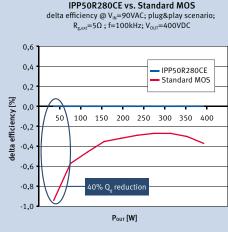
500V CoolMOS™ CE Power MOSFET

The CoolMOS™ CE is a new technology platform of Infineon's market leading high voltage power MOSFETs designed according to the revolutionary superjunction (SJ) principle.

500V CE portfolio provides all benefits of a fast switching SJ MOSFET while not sacrificing ease of use. As the complete CE series, devices achieve extremely low conduction and switching losses and can make switching applications more efficient, more compact, lighter and cooler.

Efficiency comparison 500V CoolMOS™ CE vs competitor standard MOSFET CCM PFC stage, 90VAC up to 400W





Features

- Reduced energy stored in output capacitance (E_{oss})
- High body diode ruggedness
- Reduced reverse recovery charge (Q_{rr})
- Reduced gate charge (Qg)

Benefits

- Easy control of switching behavior
- Improved light load efficiency compared to previous CoolMOS™ generations
- Cost attractive alternative compared to standard MOSFETs
- Outstanding reliability with proven CoolMOS™ quality combined with high body diode ruggedness

Applications

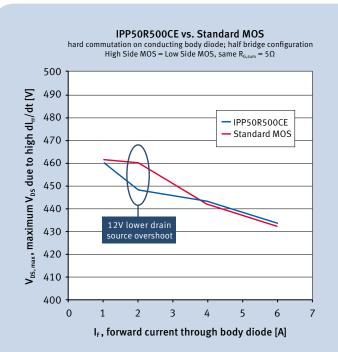
- Consumer
- Lighting
- PC Silverbox



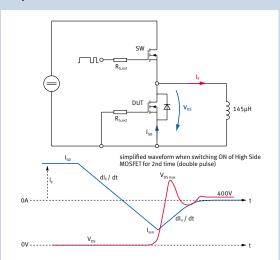




500V CoolMOS™ CE Power MOSFET



Simplified test circuit



- From I_F=1 to I_F=4A better behaviour observed of 500V CE
- I_F > 4A same behaviour
- Body diode conduction < 2µs before turn-off

Product Portfolio CoolMOS™ CE



PC Silverbox

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Applications

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Consumer

Date: 05 / 2013

ATTENTION PLEASE!

Consumer, Lighting

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INFORMATION

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

WARNINGS

PC Silverbox

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SSL: Solid State Lighting