



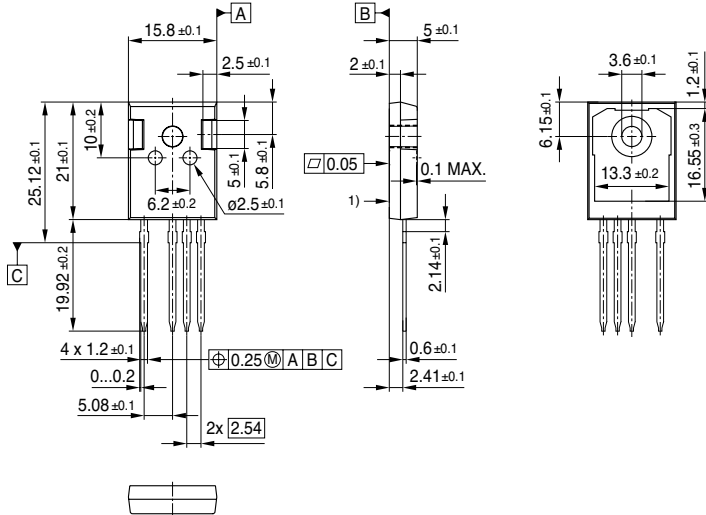
Selection Guide

CoolMOS™ product offerings in TO-247 4pin

Including best-in-class (BiC) $R_{DS(on)}$

Infineon Technologies introduces the new product offerings in TO-247 4pin package, including lowest $R_{DS(on)}$ part available.

TO-247 4pin package information

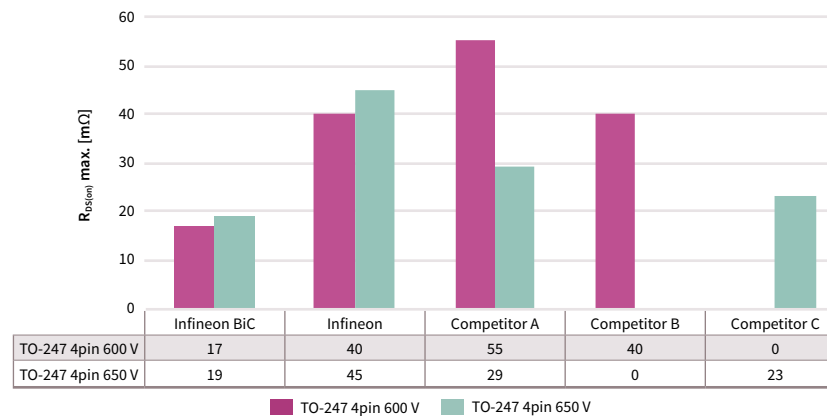


1) Shear and punch direction no burrs this surface
All metal surfaces tin plated, except area of cut.

Note: all measurements in mm

Best-in-class $R_{DS(on)}$ comparison for 600 V and 650 V

- > 600 V has a 135 percent lower $R_{DS(on)}$ than competition in TO-247 4pin with 17 mΩ parts
- > 650 V has a 21 percent lower $R_{DS(on)}$ than competition in TO-247 4pin with 19 mΩ parts



Key features

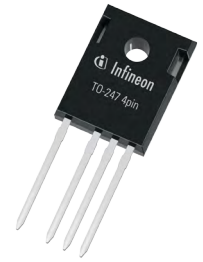
- > 4th pin (Kelvin Source)
- > Increased creepage distance between high voltage pins
- > Gate signal optimization

Key benefits

- > Reduces parasitic source inductance effects on the gate circuit enabling faster switching and increased efficiency
- > Using benefits of Kelvin Source efficiency to increase $R_{DS(on)}$ and reducing BOM cost
- > Creepage distance meets 5,000 m altitude requirement
- > Easier to design by customer

CoolMOS™ product offerings in TO-247 4pin

Including best-in-class $R_{DS(on)}$ offerings



TO-247 4pin product availability according to $R_{DS(on)}$, voltage class and CoolMOS™ series

Voltage [V]	Series	$R_{DS(on)}$ group [mΩ]					
		17–19	37–41	60–70	95–99	125	180
600	C7	IPZ60R017C7	IPZ60R040C7	IPZ60R060C7	IPZ60R099C7		
	P6		IPZ60R041P6	IPZ60R070P6	IPZ60R099P6	IPZ60R125P6	
	P7		IPZ60R037P7 ¹⁾				IPZ60R180P7 ¹⁾
650	C7	IPZ65R019C7	IPZ65R045C7	IPZ65R065C7	IPZ65R095C7		

ACTIVE & PREFERRED BEST-IN-CLASS ¹⁾ Coming soon

Published by
Infineon Technologies Austria AG
9500 Villach, Austria

© 2016 Infineon Technologies AG.
All Rights Reserved.

Order Number: B152-I0372-V1-7600-EU-EC-P
Date: 09/2016

Please note!

THIS DOCUMENT IS FOR INFORMATION PURPOSES ONLY AND ANY INFORMATION GIVEN HEREIN SHALL IN NO EVENT BE REGARDED AS A WARRANTY, GUARANTEE OR DESCRIPTION OF ANY FUNCTIONALITY, CONDITIONS AND/OR QUALITY OF OUR PRODUCTS OR ANY SUITABILITY FOR A PARTICULAR PURPOSE. WITH REGARD TO THE TECHNICAL SPECIFICATIONS OF OUR PRODUCTS, WE KINDLY ASK YOU TO REFER TO THE RELEVANT PRODUCT DATA SHEETS PROVIDED BY US. OUR CUSTOMERS AND THEIR TECHNICAL DEPARTMENTS ARE REQUIRED TO EVALUATE THE SUITABILITY OF OUR PRODUCTS FOR THE INTENDED APPLICATION.

WE RESERVE THE RIGHT TO CHANGE THIS DOCUMENT AND/OR THE INFORMATION GIVEN HEREIN AT ANY TIME.

Additional information

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office (www.infineon.com).

Warnings

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.