

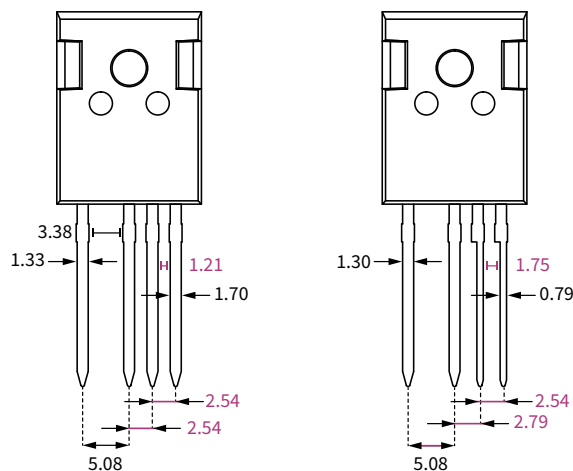
Selection Guide

CoolMOS™ product offerings in TO-247 4pin

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

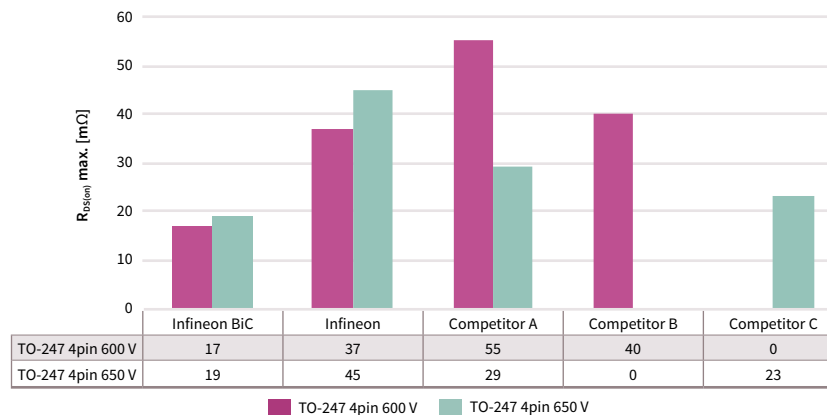
Infineon Technologies introduces the new product offerings in TO-247 4pin package, including lowest $R_{DS(on)}$ part available. With the 600 V CoolMOS™ P7, Infineon introduces an improved version of the standard TO-247 4pin package. The TO-247 4pin with asymmetric leads comes with 0.54 mm increased creepage distance between the critical leads and enables smoother wave soldering and reduced board yield loss.

TO-247 4pin package information



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

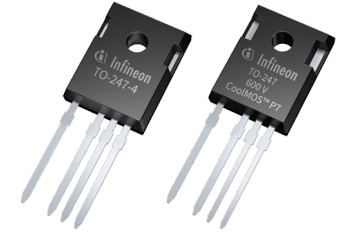
- > 4th pin (Kelvin Source)
- > Increased creepage distance between high voltage pins
- > Gate signal optimization

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]							
		17-24	37-41	45	60-70	80	95-99	120-125	180
600	C7	IPZ60R017C7	IPZ60R040C7		IPZ60R060C7		IPZ60R099C7		
	P6		IPZ60R041P6		IPZ60R070P6		IPZ60R099P6	IPZ60R125P6	
	P7	IPZA60R024P7 ¹⁾	IPZA60R037P7	IPZA60R045P7 ¹⁾	IPZA60R060P7	IPZA60R080P7	IPZA60R099P7	IPZA60R120P7	IPZA60R180P7
650	C7	IPZ65R019C7	IPZ65R045C7		IPZ65R065C7		IPZ65R095C7		

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

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