

Interactive datasheets for power MOSFETs

Putting MOSFET behaviour analysis at engineers' fingertips

Raising the bar in semiconductor engineer design support with Nexperia's award-winning interactive datasheets. Allowing engineers to manipulate sliders to adjust voltage, current, temperature, & other conditions for circuit applications. See how the operating point of a device dynamically responds to changes instantly.

Whether you are a design engineer looking to see how a device will perform at elevated temperature, or a component engineer trying to compare devices under different test conditions, Nexperia interactive datasheets are designed to make your life easier!

4. Quick reference data							
Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
① V_{DS}	drain-source voltage	$T_J \geq 25.0^\circ\text{C}$; $T_J \leq 175.0^\circ\text{C}$			60	V	
② I_D	drain current	$V_{GS} = 10.0\text{ V}$; $T_{\text{th}} = 25.0^\circ\text{C}$			58	A	
③ P_{tot}	total power dissipation	$T_{\text{th}} = 25.0^\circ\text{C}$	55°C		175°C	96	W
Static characteristics							
④ $r_{\text{DS(on)}}$	drain-source on-state resistance	$V_{GS} = 10.0\text{ V}$	2.8V		15V	7.84	mΩ
		$I_D = 15.0\text{ A}$	1A		58A		
		$T_J = 25.0^\circ\text{C}$	55°C		175°C		
Dynamic characteristics							
⑤ Q_{gd}	gate-drain charge	$I_D = 15.0\text{ A}$	1A		58A	7.99	nC
		$V_{GS} = 48.0\text{ V}$	5V		15V		
		$V_{DS} = 10.0\text{ V}$					



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EFFICIENCY WINS.

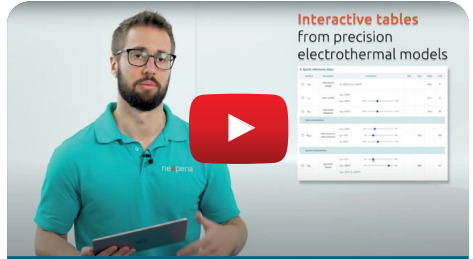


by visualizing
the interaction
between dozens of
performance parameters

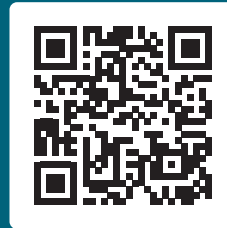
Watch your circuit come to life as you
adjust parameters, offering real-time
insights into device behaviour.



[Watch now](#)



Answering common questions about
interactive datasheets from our
esteemed engineering community.



[Watch now](#)

How will you utilise interactive datasheets?

How could we enhance future versions of the tool to support you further?

Send your feedback to:

ID-feedback@nexperia.com

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