

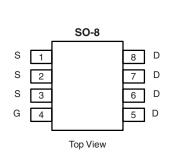
N-Channel 200-V (D-S) MOSFET

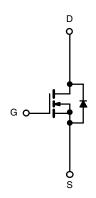
PRODUCT SUMMARY				
V _{DS} (V)	$R_{DS(on)}\left(\Omega\right)$	I _D (A)		
200	0.065 at V _{GS} = 10 V	5.2		
	0.072 at V _{GS} = 6.0 V	4.1		

FEATURES

- Halogen-free According to IEC 61249-2-21 Definition
- TrenchFET® Power MOSFETs
- Compliant to RoHS Directive 2002/95/EC







N-Channel MOSFET

ABSOLUTE MAXIMUM RATINGS	T _A = 25 °C, unle	ss otherwise r	noted		
Parameter		Symbol	10 s	Steady State	Unit
Drain-Source Voltage		V _{DS}	200		V
Gate-Source Voltage		V _{GS}	± 20		V
Continuous Dunin Comment /T 150 00\8	T _A = 25 °C	I _D	5.2	3.35	
Continuous Drain Current (T _J = 150 °C) ^a	T _A = 70 °C		4.6	2.7	
Pulsed Drain Current		I _{DM}	40		Α
Avalanch Current	L = 0.1 mH	I _{AS}	15		
Continuous Source Current (Diode Conduction) ^a		I _S	2.6	1.3	
	T _A = 25 °C	P _D	3.1	1.56	W
Maximum Power Dissipation ^a	T _A = 70 °C	L D	2.0	1.0	VV
Operating Junction and Storage Temperature Range		T _J , T _{stg}	- 55	to 150	°C

THERMAL RESISTANCE RATINGS						
Parameter		Symbol	Typical	Maximum	Unit	
Manipulation to Applicate	t ≤ 10 s	R _{thJA}	33	40		
Maximum Junction-to-Ambient ^a	Steady State	' 'thJA	65	80	°C/W	
Maximum Junction-to-Foot (Drain)	Steady State	R _{thJF}	17	21		

服务热线:400-655-8788

Notes:
a. Surface Mounted on 1" x 1" FR4 board.

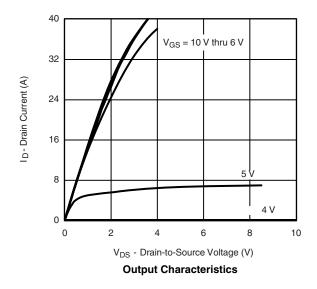


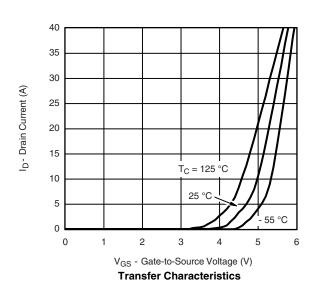
Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit	
Static							
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_{D} = 250 \mu A$	2.0			V	
Gate-Body Leakage	I _{GSS}	$V_{DS} = 0 \text{ V}, V_{GS} = \pm 20 \text{ V}$			± 100	nA	
Zara Cata Valtaga Drain Current	1	V _{DS} = 160 V, V _{GS} = 0 V	60 V, V _{GS} = 0 V		1		
Zero Gate Voltage Drain Current	IDSS	V _{DS} = 160 V, V _{GS} = 0 V, T _J = 55 °C			5	μΑ	
On-State Drain Current ^a		$V_{DS} \ge 5 \text{ V}, V_{GS} = 10 \text{ V}$	40			Α	
	D	$V_{GS} = 10 \text{ V}, I_D = 4.0 \text{ A}$ 0.0		0.065			
Drain-Source On-State Resistance ^a	R _{DS(on)}	$V_{GS} = 6.0 \text{ V}, I_D = 4.0 \text{ A}$		0.072		Ω	
Forward Transconductance ^a	9 _{fs}	$V_{DS} = 15 \text{ V}, I_{D} = 5 \text{ A}$		19		S	
Diode Forward Voltage ^a	V_{SD}	$I_S = 2.8 \text{ A}, V_{GS} = 0 \text{ V}$		0.75	1.2	V	
Dynamic ^b			1	1			
Total Gate Charge	Q_g			34	42		
Gate-Source Charge	Q_{gs}	$V_{DS} = 100 \text{ V}, V_{GS} = 10 \text{ V}, I_D = 4.0 \text{ A}$		7.5		nC	
Gate-Drain Charge	Q _{gd}			12.0		1	
Gate Resistance	R_{g}		0.2	0.85	1.3	Ω	
Turn-On Delay Time	t _{d(on)}			14	20		
Rise Time	t _r	V_{DD} = 100 V, R_L = 25 Ω		20	30		
Turn-Off Delay Time	t _{d(off)}	$I_D \cong 4.0 \text{ A}, V_{GEN} = 10 \text{ V}, R_g = 6 \Omega$		32	50	ns	
Fall Time	t _f			25	35		
Source-Drain Reverse Recovery Time	t _{rr}	I _F = 2.8 A, dI/dt = 100 A/μs		70	100		

- Notes: a. Pulse test; pulse width \leq 300 μ s, duty cycle \leq 2 %. b. Guaranteed by design, not subject to production testing.

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

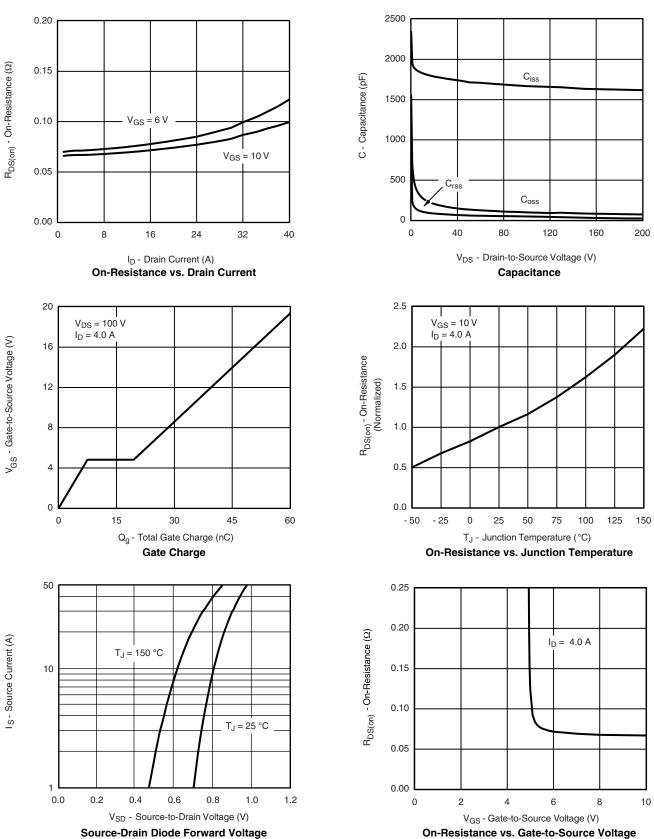
TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted





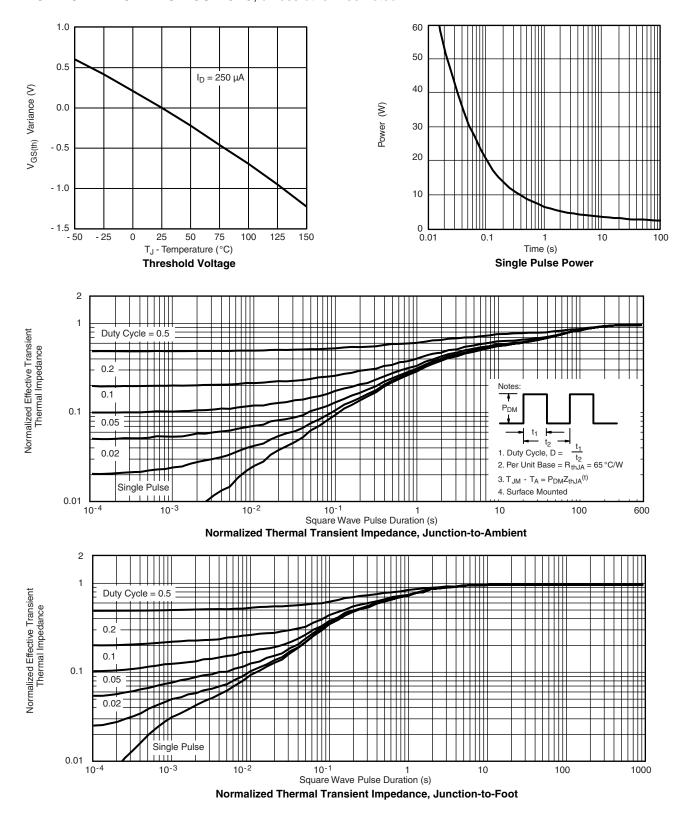


TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



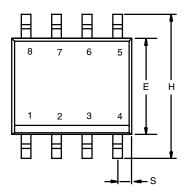


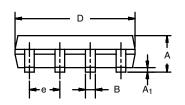
TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

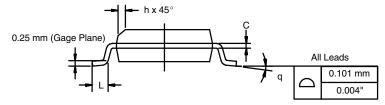




SOIC (NARROW): 8-LEADJEDEC Part Number: MS-012







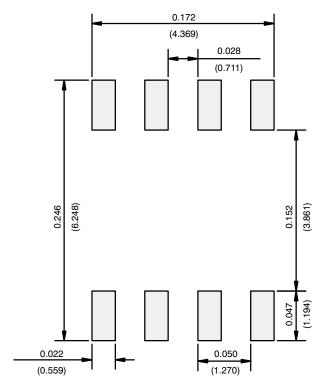
	MILLIMETERS INC			HES		
DIM	Min	Max	Min	Max		
Α	1.35	1.75	0.053	0.069		
A ₁	0.10	0.20	0.004	0.008		
В	0.35	0.51	0.014	0.020		
С	0.19	0.25	0.0075	0.010		
D	4.80	5.00	0.189	0.196		
Е	3.80	4.00	0.150	0.157		
е	1.27	BSC	0.050 BSC			
Н	5.80	6.20	0.228	0.244		
h	0.25	0.50	0.010	0.020		
L	0.50	0.93	0.020	0.037		
q	0°	8°	0°	8°		
S	0.44	0.64	0.018	0.026		
ECN: C-06527-Rev. I, 11-Sep-06						

DWG: 5498

服务热线:400-655-8788



RECOMMENDED MINIMUM PADS FOR SO-8



Recommended Minimum Pads Dimensions in Inches/(mm)

服务热线:400-655-8788 6



Disclaimer

All products due to improve reliability, function or design or for other reasons, product specifications and data are subject to change without notice.

Taiwan VBsemi Electronics Co., Ltd., branches, agents, employees, and all persons acting on its or their representatives (collectively, the "Taiwan VBsemi"), assumes no responsibility for any errors, inaccuracies or incomplete data contained in the table or any other any disclosure of any information related to the product.(www.VBsemi.com)

Taiwan VBsemi makes no guarantee, representation or warranty on the product for any particular purpose of any goods or continuous production. To the maximum extent permitted by applicable law on Taiwan VBsemi relinquished: (1) any application and all liability arising out of or use of any products; (2) any and all liability, including but not limited to special, consequential damages or incidental; (3) any and all implied warranties, including a particular purpose, non-infringement and merchantability guarantee.

Statement on certain types of applications are based on knowledge of the product is often used in a typical application of the general product VBsemi Taiwan demand that the Taiwan VBsemi of. Statement on whether the product is suitable for a particular application is non-binding. It is the customer's responsibility to verify specific product features in the products described in the specification is appropriate for use in a particular application. Parameter data sheets and technical specifications can be provided may vary depending on the application and performance over time. All operating parameters, including typical parameters must be made by customer's technical experts validated for each customer application. Product specifications do not expand or modify Taiwan VBsemi purchasing terms and conditions, including but not limited to warranty herein.

Unless expressly stated in writing, Taiwan VBsemi products are not intended for use in medical, life saving, or life sustaining applications or any other application. Wherein VBsemi product failure could lead to personal injury or death, use or sale of products used in Taiwan VBsemi such applications using client did not express their own risk. Contact your authorized Taiwan VBsemi people who are related to product design applications and other terms and conditions in writing.

The information provided in this document and the company's products without a license, express or implied, by estoppel or otherwise, to any intellectual property rights granted to the VBsemi act or document. Product names and trademarks referred to herein are trademarks of their respective representatives will be all.

Material Category Policy

Taiwan VBsemi Electronics Co., Ltd., hereby certify that all of the products are determined to be oHS compliant and meets the definition of restrictions under Directive of the European Parliament 2011/65 / EU, 2011 Nian. 6. 8 Ri Yue restrict the use of certain hazardous substances in electrical and electronic equipment (EEE) - modification, unless otherwise specified as inconsistent.(www.VBsemi.com)

Please note that some documents may still refer to Taiwan VBsemi RoHS Directive 2002/95 / EC. We confirm that all products identified as consistent with the Directive 2002/95 / EC European Directive 2011/65 /.

Taiwan VBsemi Electronics Co., Ltd. hereby certify that all of its products comply identified as halogen-free halogen-free standards required by the JEDEC JS709A. Please note that some Taiwanese VBsemi documents still refer to the definition of IEC 61249-2-21, and we are sure that all products conform to confirm compliance with IEC 61249-2-21 standard level JS709A.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for MOSFET category:

Click to view products by VBsemi Elec manufacturer:

Other Similar products are found below:

IRFD120 JANTX2N5237 BUK455-60A/B MIC4420CM-TR VN1206L NDP4060 SI4482DY IPS70R2K0CEAKMA1 SQD23N06-31L-GE3
TK16J60W,S1VQ(O 2SK2614(TE16L1,Q) DMN1017UCP3-7 DMN1053UCP4-7 SQJ469EP-T1-GE3 NTE2384 DMC2700UDMQ-7
DMN2080UCB4-7 DMN61D9UWQ-13 US6M2GTR DMN31D5UDJ-7 DMP22D4UFO-7B DMN1006UCA6-7 DMN16M9UCA6-7
STF5N65M6 IRF40H233XTMA1 STU5N65M6 DMN6022SSD-13 DMN13M9UCA6-7 DMTH10H4M6SPS-13 DMN2990UFB-7B
IPB80P04P405ATMA2 2N7002W-G MCAC30N06Y-TP MCQ7328-TP BXP7N65D BXP4N65F AOL1454G WMJ80N60C4 BXP2N20L
BXP2N65D BXT1150N10J BXT1700P06M TSM60NB380CP ROG RQ7L055BGTCR DMNH15H110SK3-13 SLF10N65ABV2
BSO203SP BSO211P IPA60R230P6 IPA60R460CE