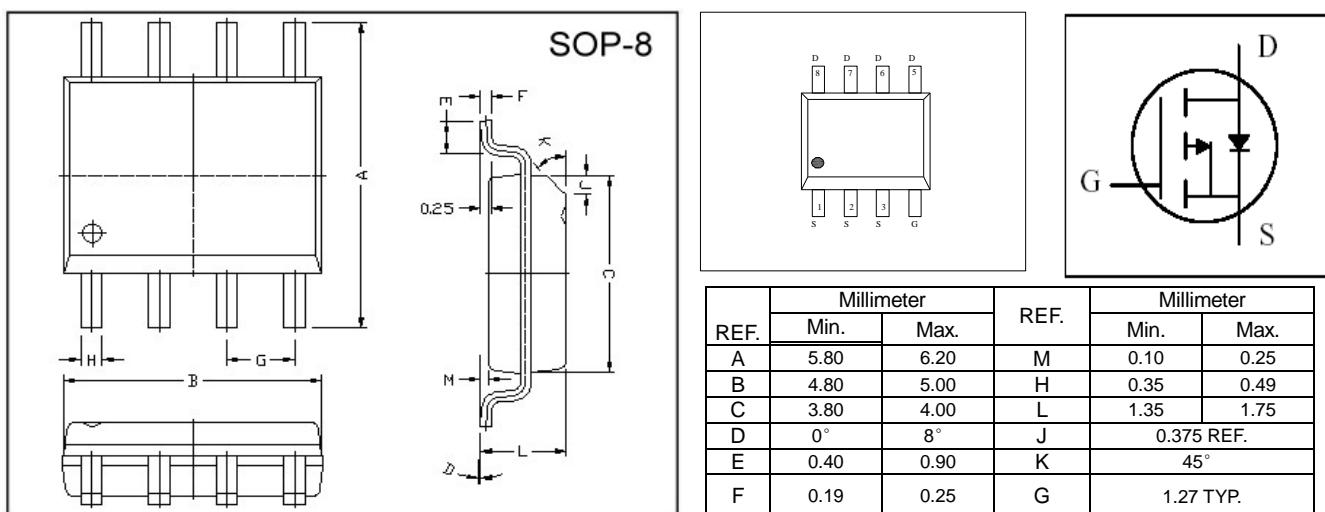


-30V P-Channel Enhancement Mode MOSFET

V_{DS} = -30V**R_{DS(ON)}, V_{GS}@-10V, I_{DS}@-10.5A = 18mΩ****R_{DS(ON)}, V_{GS}@-4.5V, I_{DS}@-6.0A = 30mΩ****Features**

Advanced trench process technology

High Density Cell Design For Ultra Low On-Resistance

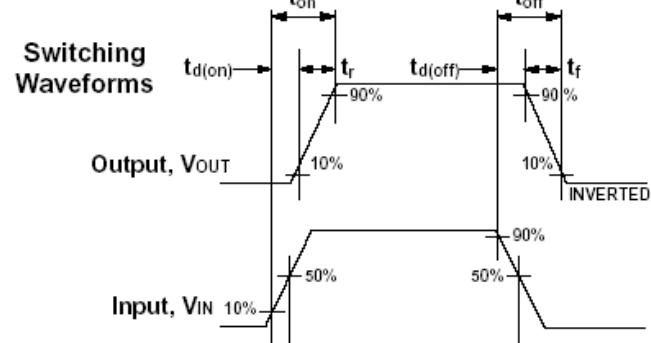
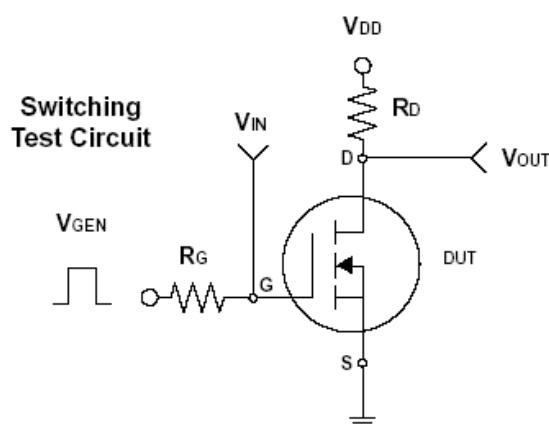
Package Dimensions**Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)**

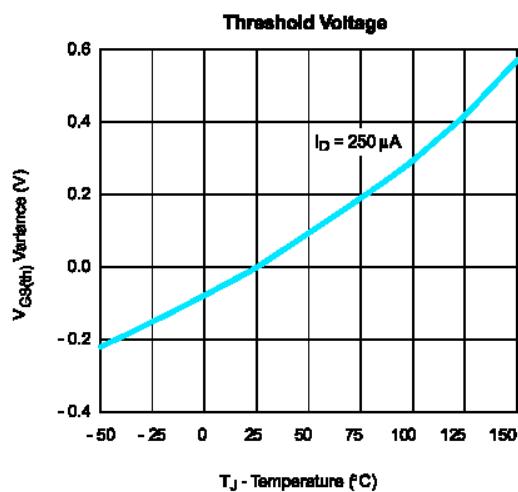
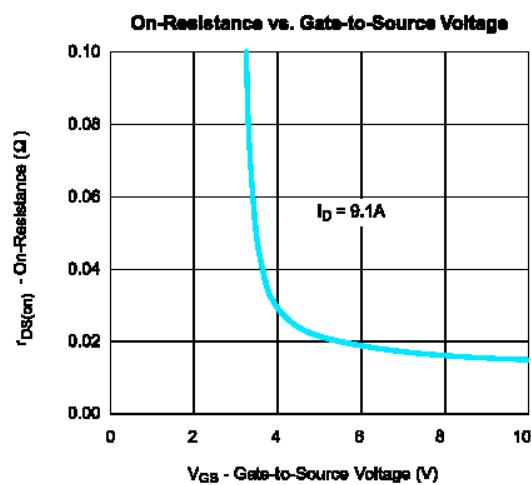
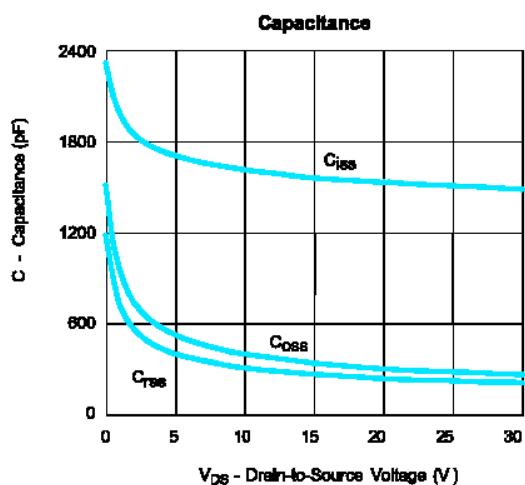
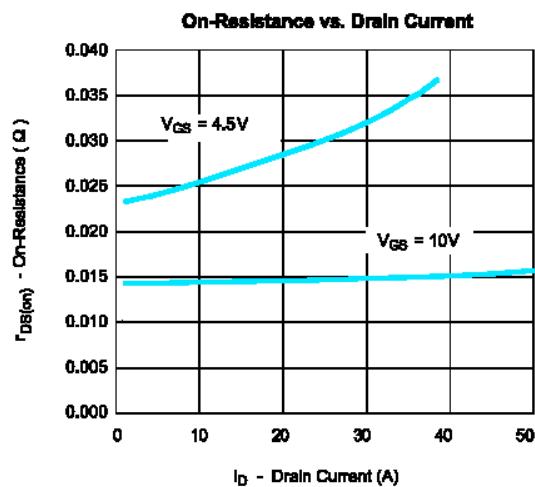
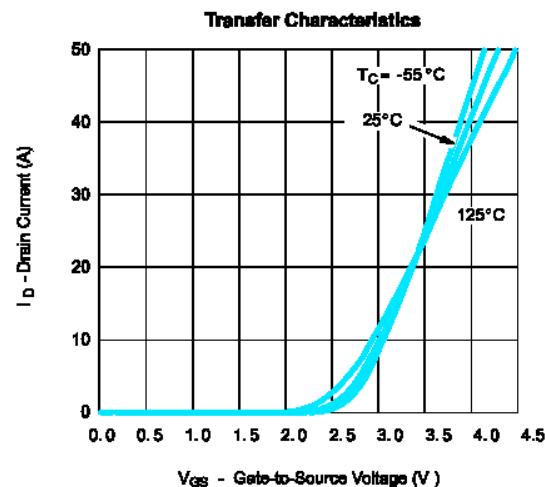
Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V _{GS}	± 20	
Continuous Drain Current	I _D	-10.5	A
Pulsed Drain Current	I _{DM}	-50	
Maximum Power Dissipation	TA = 25°C	2.5	W
	TA = 75°C	1.2	
Operating Junction and Storage Temperature Range	T _J , T _{stg}	-55 to 150	°C
Junction-to-Ambient Thermal Resistance (PCB mounted)	R _{θJA}	50	°C/W

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static						
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS} = 0V, I_D = -250\mu A$	-30			V
Drain-Source On-State Resistance	$R_{DS(on)}$	$V_{GS} = -10V, I_D = -10.5A$		15.0	22.0	$m\Omega$
Drain-Source On-State Resistance	$R_{DS(on)}$	$V_{GS} = -4.5V, I_D = -6.0A$		20.0	33.0	
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_D = -250\mu A$	-1	-1.4	-3	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -24V, V_{GS} = 0V$			-1	μA
Gate Body Leakage	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0V$			± 100	nA
Forward Transconductance	g_f	$V_{DS} = -10V, I_D = -5A$		21	—	S
Dynamic						
Total Gate Charge	Q_g	$V_{DS} = -15V, I_D = -9.1A$ $V_{GS} = 10V$		37.2		nC
Gate-Source Charge	Q_{gs}			9.84		
Gate-Drain Charge	Q_{gd}			7.52		
Turn-On Delay Time	$t_{d(on)}$	$V_{DD} = -15V, RL = 15\Omega$ $I_D = -1A, V_{GEN} = -10V$ $R_G = 6\Omega$		10		ns
Turn-On Rise Time	t_r			15		
Turn-Off Delay Time	$t_{d(off)}$			110		
Turn-Off Fall Time	t_f			70		
Input Capacitance	C_{iss}	$V_{DS} = 8V, V_{GS} = 0V$ $f = 1.0 \text{ MHz}$		1740		pF
Output Capacitance	C_{oss}			235		
Reverse Transfer Capacitance	C_{rss}			225		
Source-Drain Diode						
Diode Forward Voltage	V_{SD}	$I_S = -2.1A, V_{GS} = 0V$		1.2		V

Note: Pulse test: pulse width <= 300us, duty cycle<= 2%



Typical Characteristics ($T_J = 25^\circ\text{C}$ Noted)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [MOSFET](#) category:

Click to view products by [PUOLOP](#) manufacturer:

Other Similar products are found below :

[614233C](#) [648584F](#) [MCH3443-TL-E](#) [MCH6422-TL-E](#) [FDPF9N50NZ](#) [IRFD120](#) [IRFF430](#) [JANTX2N5237](#) [2N7000](#) [FCA20N60_F109](#)
[FDZ595PZ](#) [2SK2267\(Q\)](#) [2SK2545\(Q,T\)](#) [405094E](#) [423220D](#) [MIC4420CM-TR](#) [VN1206L](#) [614234A](#) [715780A](#) [SSM6J414TU,LF\(T](#) [751625C](#)
[PSMN4R2-30MLD](#) [TK31J60W5,S1VQ\(O](#) [2SK2614\(TE16L1,Q\)](#) [DMN1017UCP3-7](#) [EFC2J004NUZTDG](#) [FCAB21350L1](#) [P85W28HP2F-](#)
[7071](#) [DMN1053UCP4-7](#) [NTE2384](#) [NTE2969](#) [NTE6400A](#) [DMN61D9UWQ-13](#) [US6M2GTR](#) [DMN31D5UDJ-7](#) [SSM6P54TU,LF](#)
[DMP22D4UFO-7B](#) [IPS60R3K4CEAKMA1](#) [DMN1006UCA6-7](#) [DMN16M9UCA6-7](#) [STF5N65M6](#) [STU5N65M6](#) [C3M0021120D](#)
[DMN13M9UCA6-7](#) [BSS340NWH6327XTSA1](#) [MCM3400A-TP](#) [DMTH10H4M6SPS-13](#) [IPS60R1K0PFD7SAKMA1](#)
[IPS60R360PFD7SAKMA1](#) [IPS60R600PFD7SAKMA1](#)