

Features

- Advanced Trench MOSFET Process Technology
- Ultra Low On-Resistance With Low Gate Charge
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

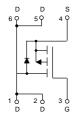
- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

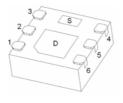
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-12	V
Gate-Source Volltage	V _{GS}	₽₽	V
Continuous Drain Current	I _D	-8	Α
Pulsed Drain Current (Note 2)	I _{DM}	-28	Α

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Pulse Width Limited by Maximum Junction Temperature.

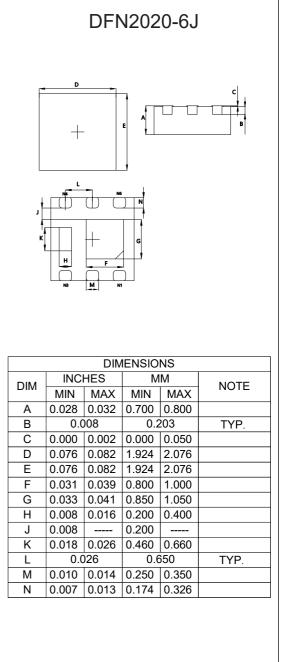
Internal Structure





Marking: 1208

P-CHANNEL	
MOSFET	





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

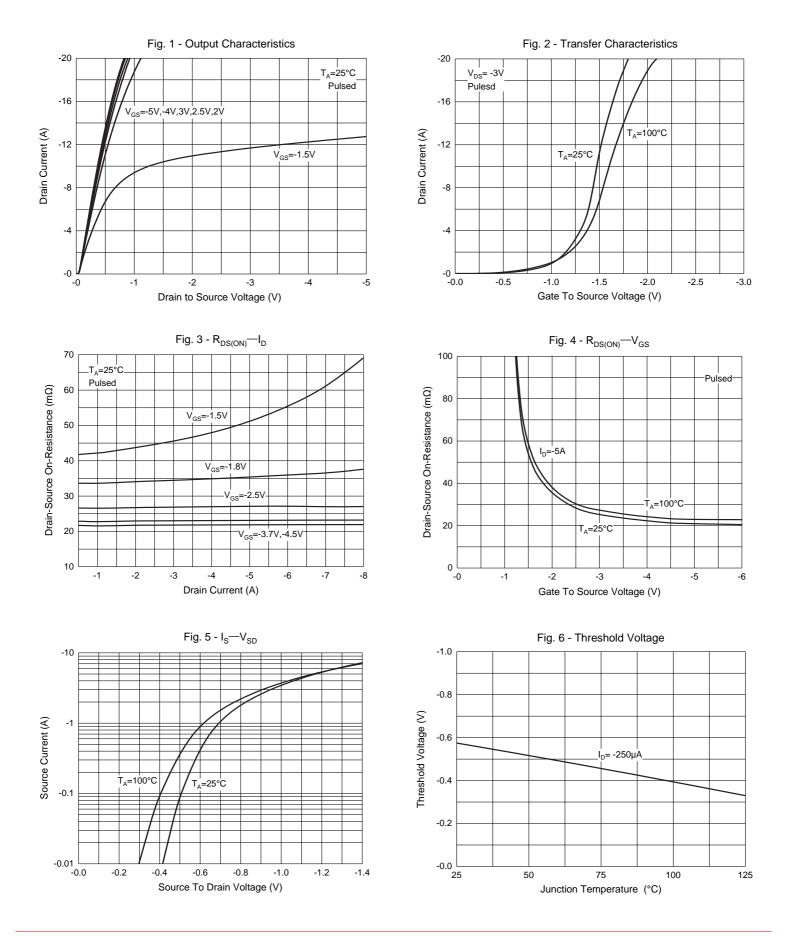
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics				l	1	I	
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250µA	-12			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±8V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-12V, V _{GS} =0V			-1	μA	
Gate-Threshold Voltage ^(Note 2)	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250\mu A$	-0.4		-1	V	
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-5A			28	 mΩ	
		V _{GS} =-3.7V, I _D =-4.6A			32		
Drain-Source On-Resistance ^(Note 2)		V _{GS} =-2.5V, I _D =-4.3A			40		
		V _{GS} =-1.8V, I _D =-1A			63		
		V _{GS} =-1.5V, I _D =-0.5A			150	-	
Forward Tranconductance ^(Note 2)	g fs	V _{DS} =-5V, I _D =-5A		18		S	
Dynamic Characteristics ^(Note 3)							
Input Capacitance	C _{iss}			1275			
Output Capacitance	C _{oss}	V _{DS} =-6V,V _{GS} =0V,f=1MHz		255		pF	
Reverse Transfer Capacitance	C _{rss}			236			
Gate Resistance	R _g	V _{DS} =0V,V _{GS} =0V,f=1MHz	1.9		19	Ω	
Total Gate Charge	Qg			14	21		
Gate-Source Charge	Q _{gs}	V _{DS} =-6V,V _{GS} =-4.5V,I _D =-5A		2.3		- 0	
Gate-Drain Charge	Q _{gd}			3.6		nC	
Reverse Recovery Chrage	Q _{rr}			8	16		
Reverse Recovery Time	t _{rr}	I _F =-4A, di/dt=100A/μs		24	48		
Turn-On Delay Time	t _{d(on)}			26	40		
Turn-On Rise Time	t _r	V _{DD} =-6V,V _{GEN} =-4.5V,I _D =-4A		24	40	ns	
Turn-Off Delay Time	t _{d(off)}	$R_L=6\Omega, R_{GEN}=1\Omega$		45	70		
Turn-Off Fall Time	t _f			20	35	1	
Drain-Source Body Diode Cha	racteristi	cs		•	·	·	
Continuous Body Diode Current	I _S				-8	Λ	
Pulsed Diode Forward Current	I _{SM}				-28	A	
Body Diode Voltage	V _{SD}	I _S =-4A, V _{GS} =0V			-1.2	V	

Note: 2. Pulse Test : Pulse Width \leq 300µs, Duty Cycle \leq 2%.

3. Guaranteed by Design, Not Subject to Production Testing.



Curve Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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