

Features

- High Density Cell Desihn for Ultra Low R_{DS(on)}
- Fully Characterized Avalanche Voltage and Current
- Good Stability and Uniformity with High EAS
- · 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

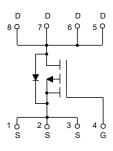
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 1.15°C/W Junction to Case^(Note 2)

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V _{DS}	-60	V
Gate-Source Volltage		V _{GS}	±20	V
Continuous Drain Current	T _C =25°C	1	-60	Α
	T _C =100°C	- I _D	-42.3	Α
Pulsed Drain Current		I _{DM}	-260	Α
Single Pulse Avalanche Energy (Note 3)		E _{AS}	722	mJ
Total Power Dissipation		P _D	130	W

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. Surface Mounted on FR4 Board, t≤10 sec.
- 3. T_J =25°C, V_{DD} =-30V, V_G =-10V,L=0.5mH, R_Q =25 Ω .

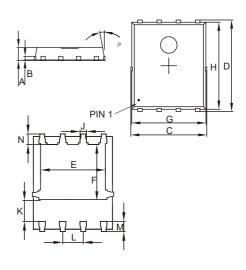
Internal Structure and Marking Code





P-CHANNEL MOSFET

DFN5060



DIMENSIONS						
DIM INC		HES	MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.031	0.047	0.80	1.20		
В	0.010		0.254		TYP.	
C	0.193	0.222	4.90	5.64		
D	0.232	0.250	5.90	6.35		
Е	0.148	0.167	3.75	4.25		
F	0.126	0.154	3.20	3.92		
G	0.189	0.213	4.80	5.40		
I	0.222	0.239	5.65	6.06		
K	0.045	0.059	1.15	1.50		
J	0.012	0.020	0.30	0.50		
L	0.046	0.054	1.17	1.37		
М	0.012	0.028	0.30	0.71		
Ν	0.016	0.028	0.40	0.71		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

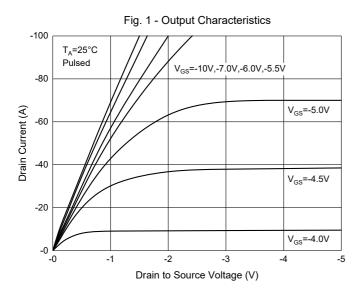
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Static Characteristics				1	1	
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-60			V
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0V			-1	μA
Gate-Threshold Voltage ^(Note 4)	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-2	-2.6	-3.5	V
Drain-Source On-Resistance ^(Note 4)	R _{DS(on)}	V _{GS} =-10V, I _D =-20A		13	18	mΩ
Forward Tranconductance ^(Note 4)	g _{FS}	V _{DS} =-5V, I _D =-20A		25		S
Dynamic Characteristics(Note 5)						
Input Capacitance	C _{iss}			5814		
Output Capacitance	C _{oss}	V_{DS} =-25V, V_{GS} =0V,f=1MHz		483		pF
Reverse Transfer Capacitance	C _{rss}			234		
Total Gate Charge	Qg			75		nC
Gate-Source Charge	Q_{gs}	V_{DS} =-30V, V_{GS} =-10V, I_{D} =-20A		16		
Gate-Drain Charge	Q_{gd}			19		
Reverse Recovery Chrage	Q _{rr}	I _s =-20A, di/dt=-100A/μs		71		
Reverse Recovery Time	t _{rr}	1 _S 20A, di/dt100A/µS		49		
Turn-On Delay Time	t _{d(on)}			18		
Turn-On Rise Time	t _r	V_{DD} =-30V, R _L =1.5Ω,		20		ns
Turn-Off Delay Time	t _{d(off)}	V_{GS} =-10V, R_{G} =3 Ω		55		
Turn-Off Fall Time	t _f			35		
Drain-Source Body Diode Cha	racteristi	cs	•	•		
Continuous Body Diode Current	I _S	T _C =25°C			-60	Α
Body Diode Voltage	V _{SD}	I _{SD} =-20A, V _{GS} =0V			-1.2	V

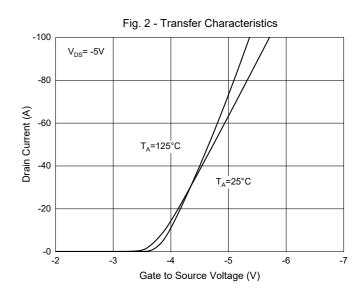
Note 4. Pulse Test : Pulse Width \leq 300 µs, Duty Cycle \leq 2%.

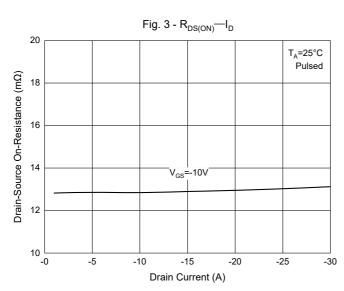
^{5.} Guaranteed by Design, Not Subject to Production Testing.

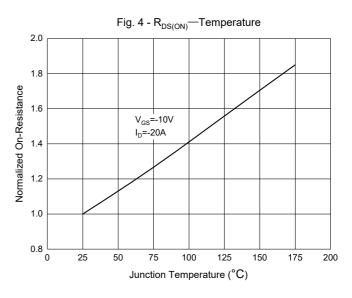


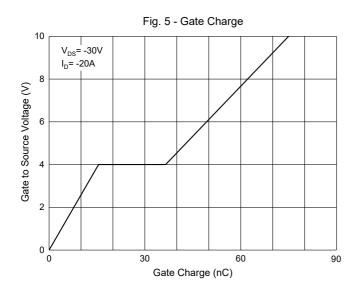
Curve Characteristics













Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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