/ Descriptions

PDFN5Ö6 Ṃ Ꝉ N ᵴ ʃ ᷉ Ẓ ˥

N-Channel MOSFET in a PDFN5Ö6 Plastic Package .

/ Features

V_{DS}=60V I_D=67A

$R_{DS(on)}$@10V≤7mΩ(Type. 5.7mΩ)

$R_{DS(on)}$@6V≤12mΩ(Type. 6.2mΩ)

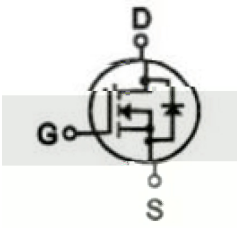
ṇ ꜰ ᵝ HF Product.

/ Applications

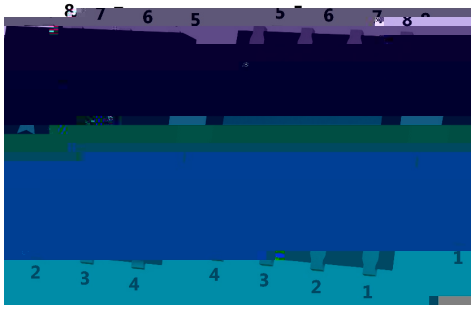
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This device is ideal for boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting.

/ Equivalent Circuit



/ Pinning



Pin	极性
1	S
2	S
3	S
4	G
5	D
6	D

/ Marking

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See Marking Instructions.

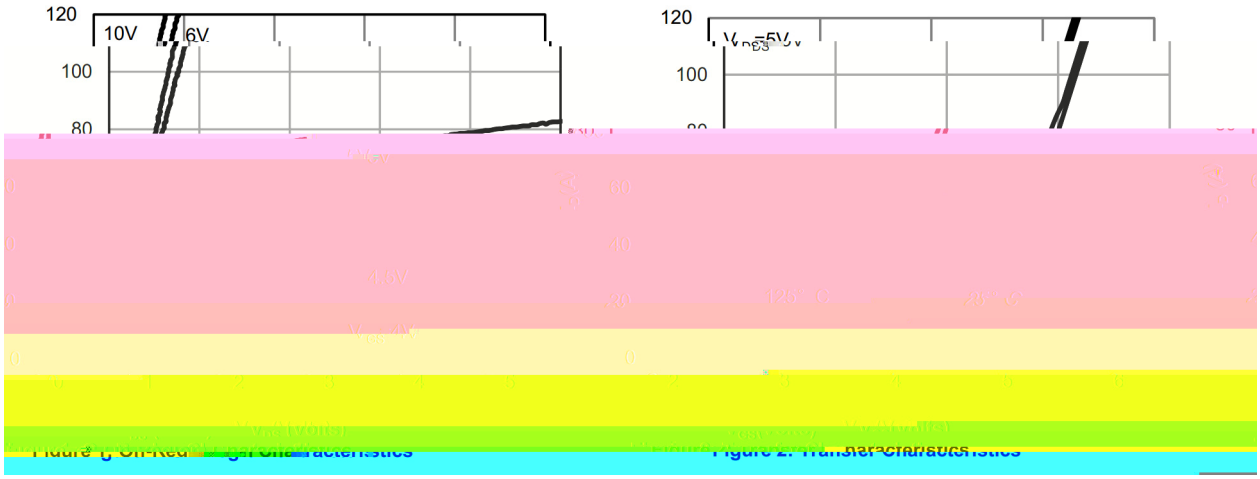
v ̈Ω Parameter		٩ N Symbol	̈Ω Ö Rating	D Ч Unit
Drain-Source Voltage		V_{DSS}	60	V
Drain Current		I_D(Tc=25)	67	A
Pulsed Drain Current		I_{DM}	212	A
Gate-Source Voltage		V_{GS}	20	V
Single Pulsed Avalanche Energy(L=0.5mH)		E_{AS}	720	mJ
Avalanche Current		I_{AS}	41	A
Total Power Dissipation		P_D(Tc=25)	60	W
Junction and Storage Temperature Range		T_J,T_{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient	Steady-State	$R_{\theta JA}$	60	ł /W
Thermal Resistance-Junction to Case	Steady-State	$R_{\theta JC}$	2.08	

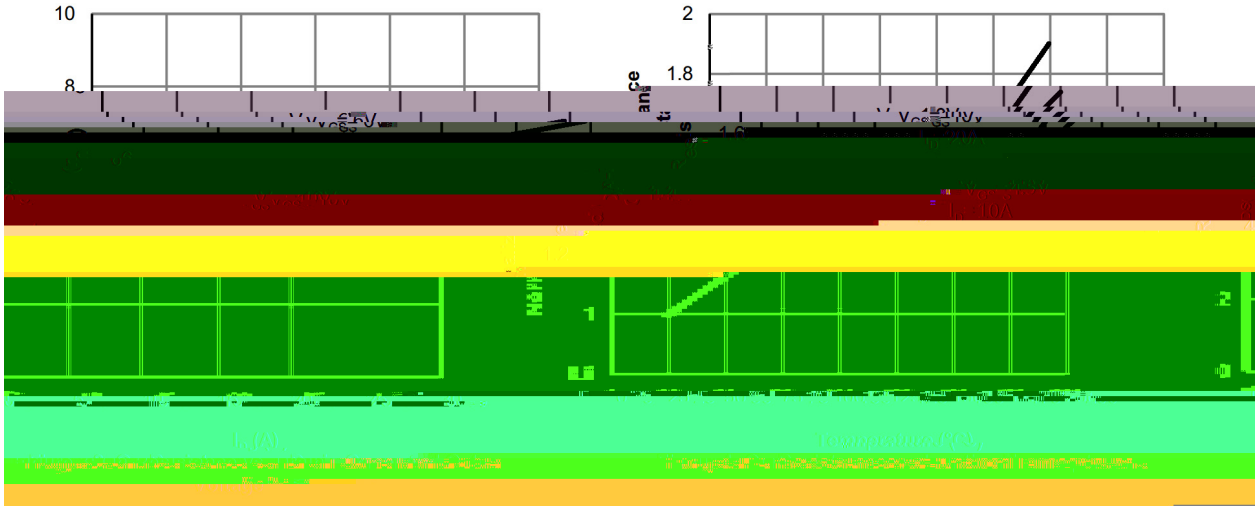
v ̈Ω Parameter	٩ N Symbol	‗ ː† ţ Test Conditions	ώ ṇ Ö Min	Ɛ ʒ Ö Typ	ώ ᶻ Ö Max	D Ч Unit
Drain-Source Breakdown Voltage	BV_{DSS}	I_D=250uA, V_{GS}=0V	60	70		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=60V, V_{GS}=0V			1.0	uA
Gate-Body leakage current	I_{GSS}	V_{DS}=0V, V_{GS}= ±20V			±100	nA

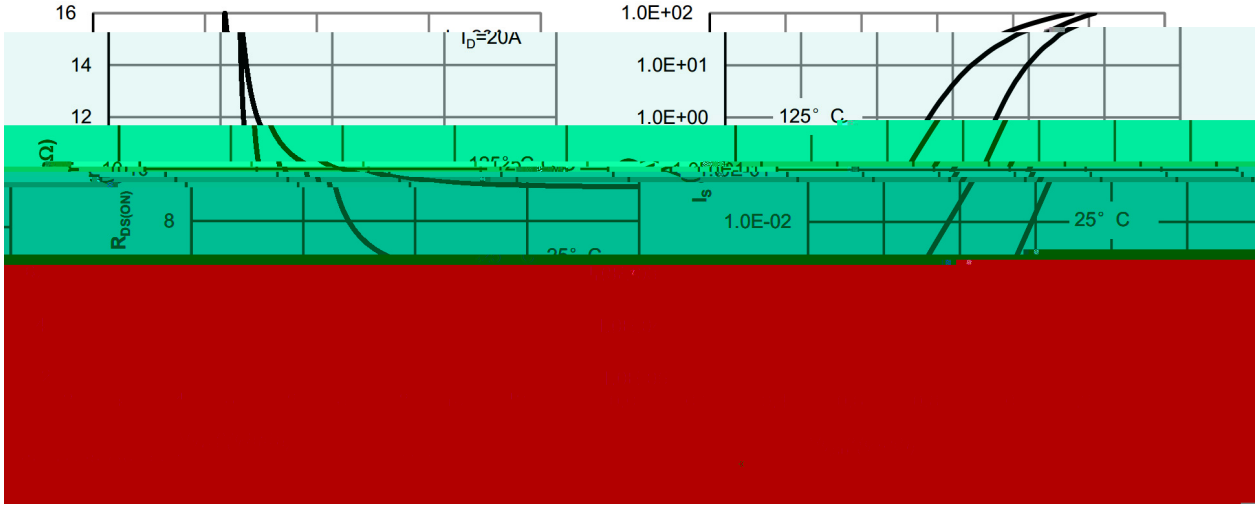
/ Electrical Characteristics(Ta=25)

v ̈Ω Parameter	ϒ N Symbol	╨ ⁝ˈ ţ Test Conditions	ѡ ṇ Ө Min	Ɛ ʒ Ө Typ	ѡ ᶻ Ө Max	ᴅ Ꮋ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=30V R_L=1.5 R_{GEN}=3		21		ns
Turn-On Rise Time	t_r			23		
Turn-Off Delay Time	$t_{d(off)}$			35		
Turn-Off Fall Time	t_f			4.2		

/ Electrical Characteristic Curve







/ Marking Instructions



EU χ	
070N06SH χ	
---- χ	
Note χ	
BR χ	Company Code
070N06SH χ	Product Type Code
****:	Lot No. Code, code change with Lot No