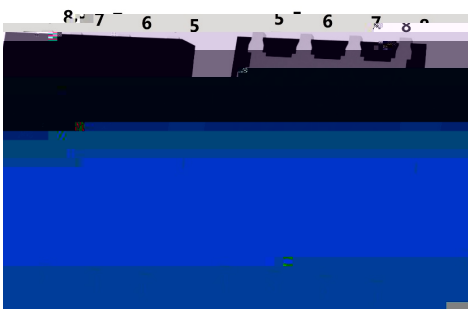
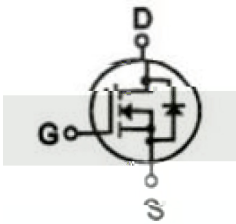


Rev.A Jul.-2025

PDFN5×6 N
N-Channel MOSFET in a PDFN5×6 Plastic Package.

$V_{DS}(V)=30\text{ V}$ $I_D=124\text{ A}$
 $R_{DS(ON)}@10\text{ V } 2.5\text{ m}$ (Typ.1.4mR)
 $R_{DS(ON)}@4.5\text{ V } 4.0\text{ m}$ (Typ.2.5mR)
 HF Product.

MB/NB/UMPC/VGA Buck -
 Battery Management,High Frequency Point-of-Load Synchronous Buck Converter for
 MB/NB/UMPC/VGA,Networking DC-DC Power System,Load Switch.



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

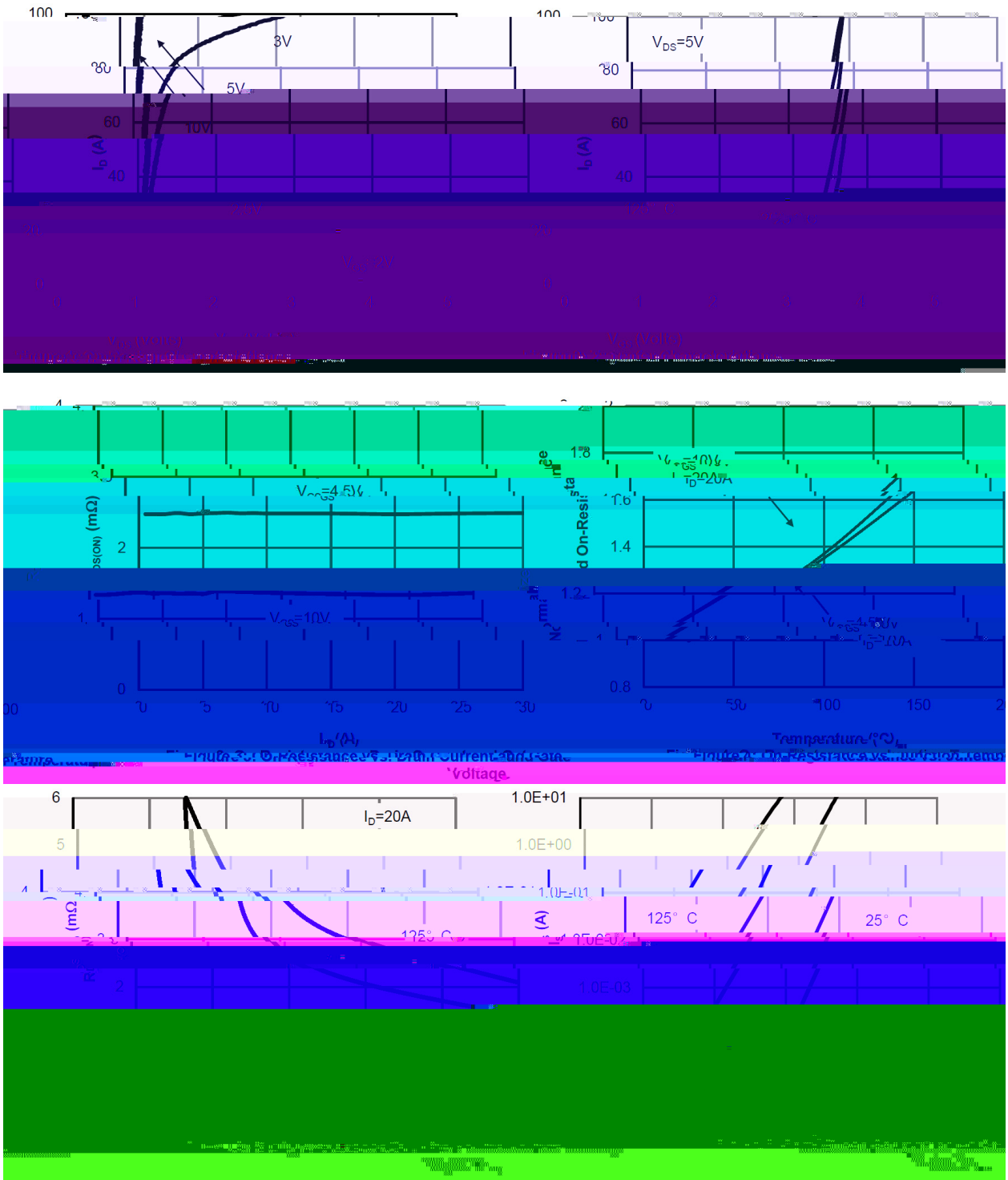
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Continuous Drain Current	$I_D(T_c=25^\circ\text{C})$	124	A
Pulsed Drain Current	I_{DM}	248	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	65	W
Avalanche energy(L=0.5mH)	E_{AS}	810	mJ
Avalanche Current(L=0.5mH)	I_{AS}	46.5	A
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150	
Maximum Junction-to-Ambient	R_{JA}	50	/ W
Maximum Junction-to-Case	R_{JC}	1.92	

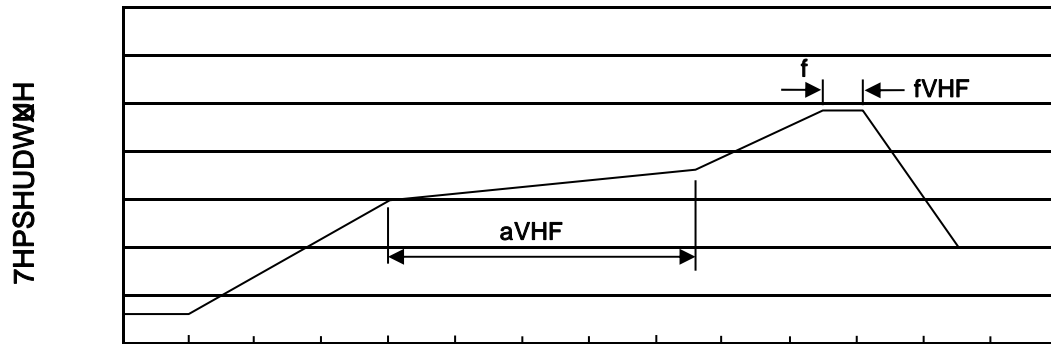
Parameter	Symbol	Test Conditions	Min	Unit	AS
-----------	--------	-----------------	-----	------	----

n

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	$Q_{g(10V)}$	$V_{GS}=10V$ $V_{DS}=15V$ $I_D=20A$		115.2		nC
Total Gate Charge	$Q_{g(4.5V)}$			55.3		
Gate Source Charge	Q_{gs}			11.0		
Gate Drain Charge	Q_{gd}			23.6		
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=15V$ $I_D=20A$ $R_G=3$		17.2		ns
Turn-On Rise Time	t_r			53.3		
Turn-Off Delay Time	$t_{d(off)}$			80.9		
Turn-Off Fall Time	t_f			35.3		



Rev.A Jul.-2025


7LPHVHF

Note:

- | | | | |
|---|---------|-----------|---|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units ;>û IH					Dimension ;>û p . (unit /Enm³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
PDFN5x6	5,000	2	10,000	6	60,000	13"x12	360x360x50	380x335x366

All information provided in this document is subject to legal disclaimers.