

5 é / Descriptions

PDFN5 ~6A .> // x E N ?ú 3 « | • ' ož

Dual N-CHANNEL MOSFET in a PDFN5 h 6A Plastic Package.

□ a / Features

Dual N-Ch

VDS(V)=60V

ID=24.5A

RDS(ON)<13m (VGS=10V)

RDS(ON)<18m (VGS=4.5V)

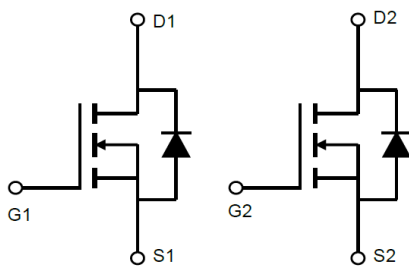
—)í D }ož HF Product.

Đ ÷ / Applications

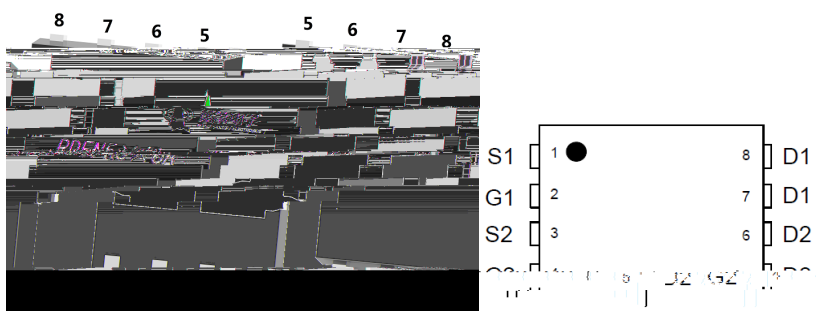
PWM • o• ħ ú • ¼o• > ' òo• LED º °ož

PWM Application, Load Switch, Power Management, Dimming LED.

Ã W] Ô • / Equivalent Circuit



• Ů - æ / Pinning



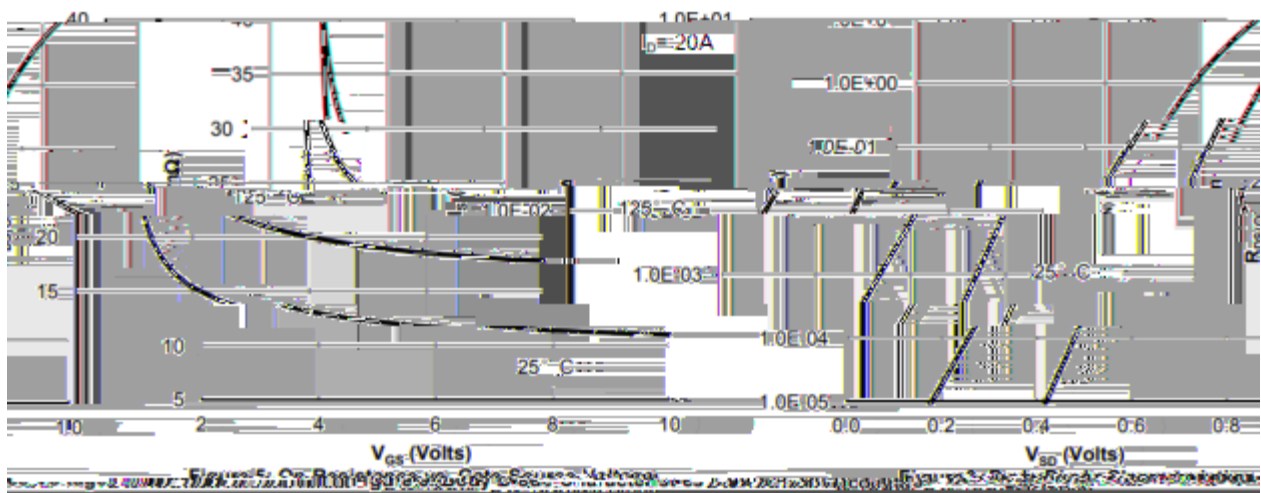
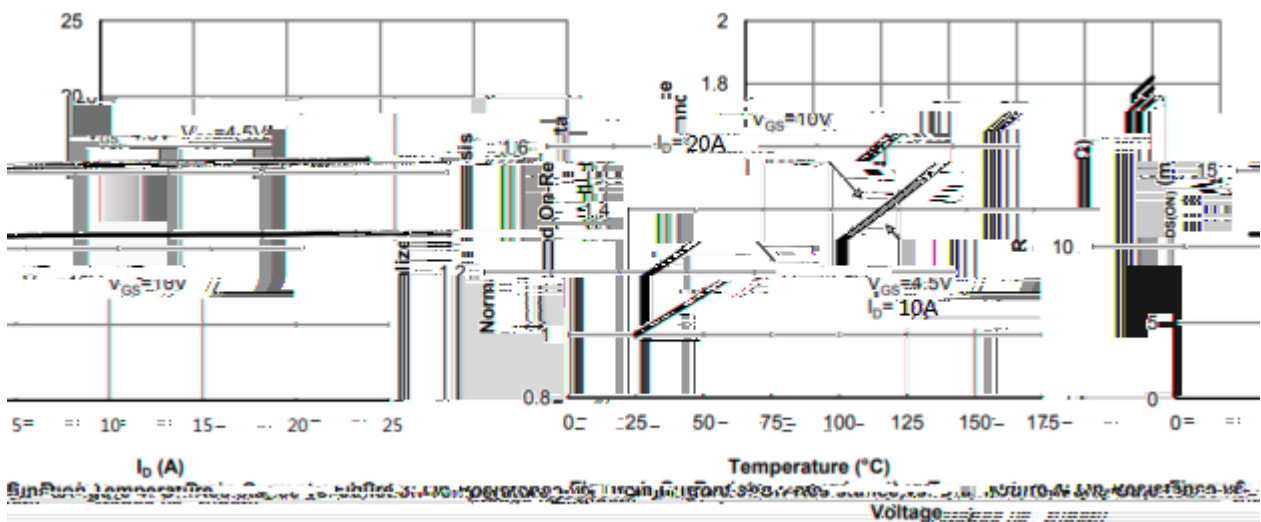
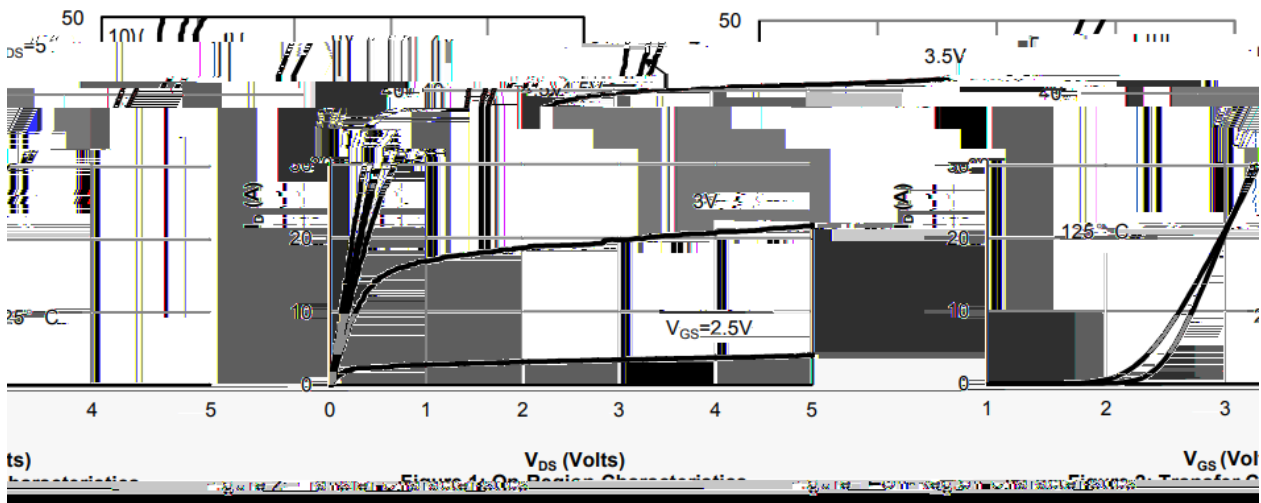
, M V / Marking

• - ~ a ¢ ÄSee Marking Instructions.

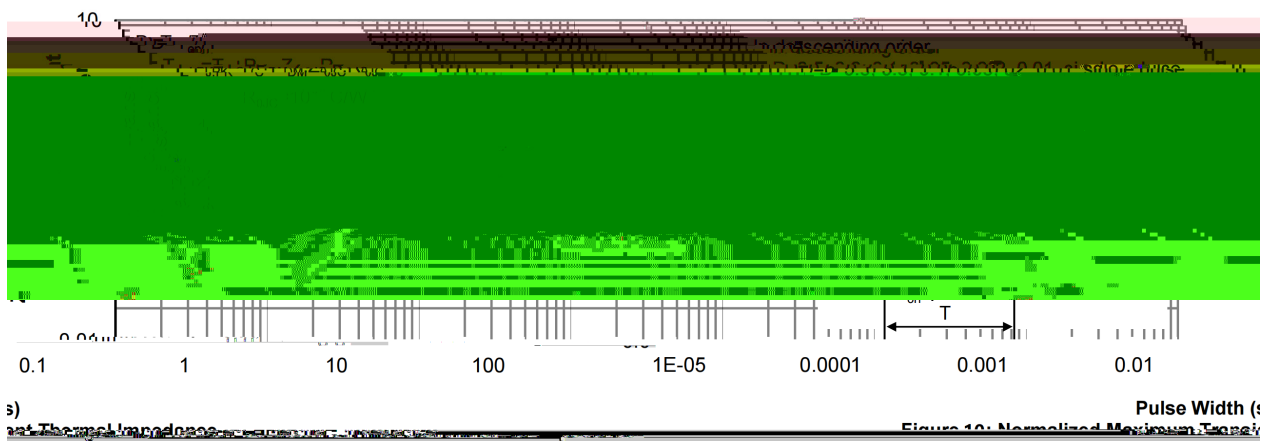
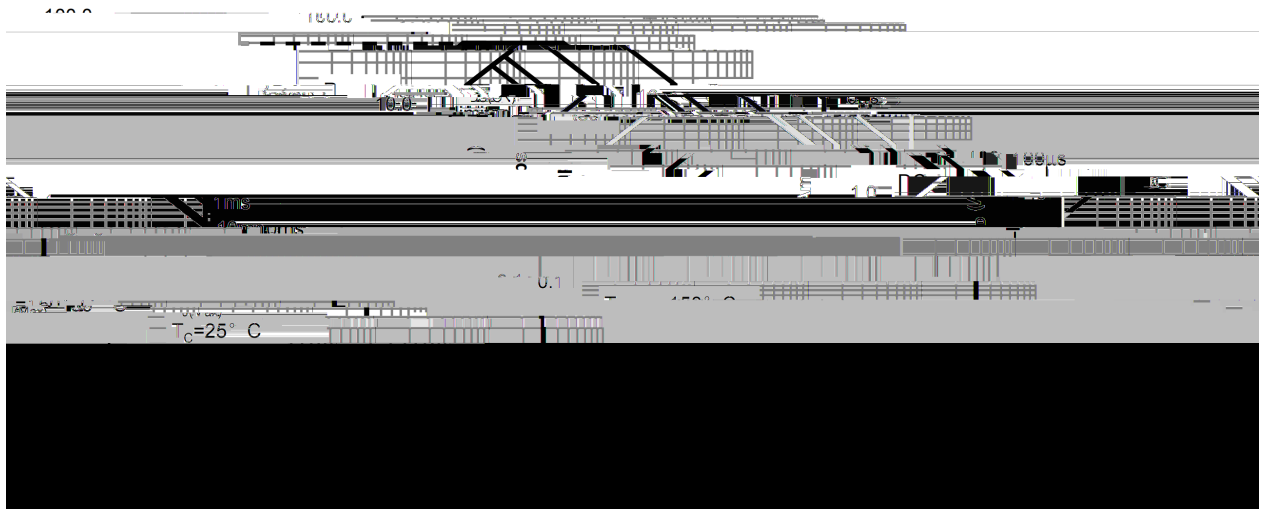
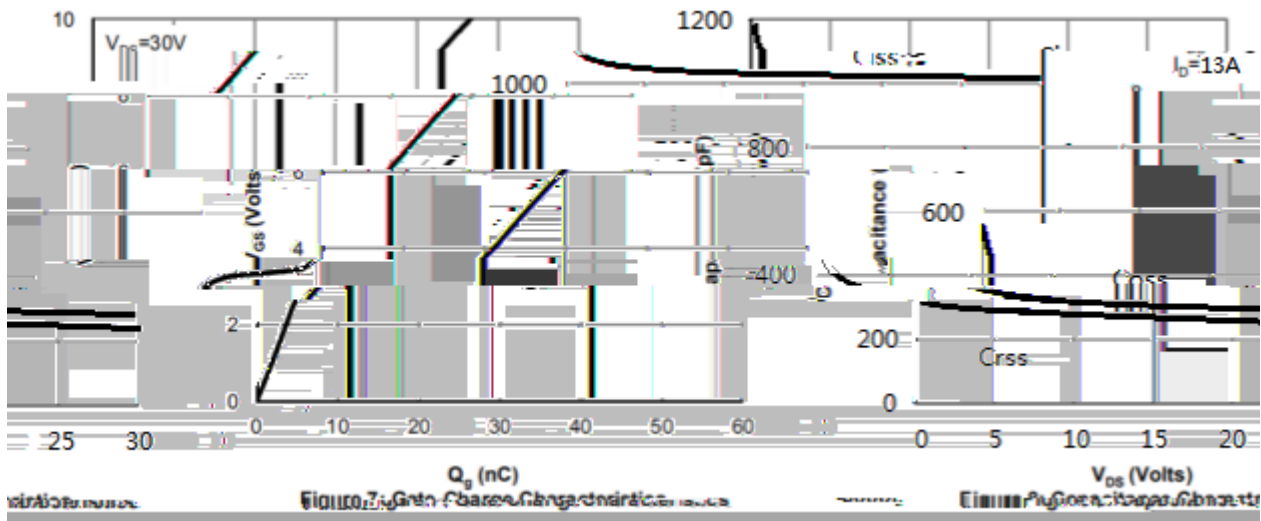
@ f Parameter	... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage	V_{DS}	60	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	24.5	A
Drain Current - Pulsed	I_{DM}	95	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	70	mJ
Avalanche Current	I_{AS}	20	A
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	12.5	W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to 150	
Junction-to-Ambient θ_{JA}	R_{JA}	35	$^\circ\text{C}/\text{W}$

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Turn-On Delay Time	t _{d(on)}	V _{GS} =10V V _{DS} =30V R _L =2.3 R _{GEN} =3		5		ns
Turn-On Rise Time	t _r			3		
Turn-Off Delay Time	t _{d(off)}			19		
Turn-Off Fall Time	t _f			3		

Electrical Characteristic Curve



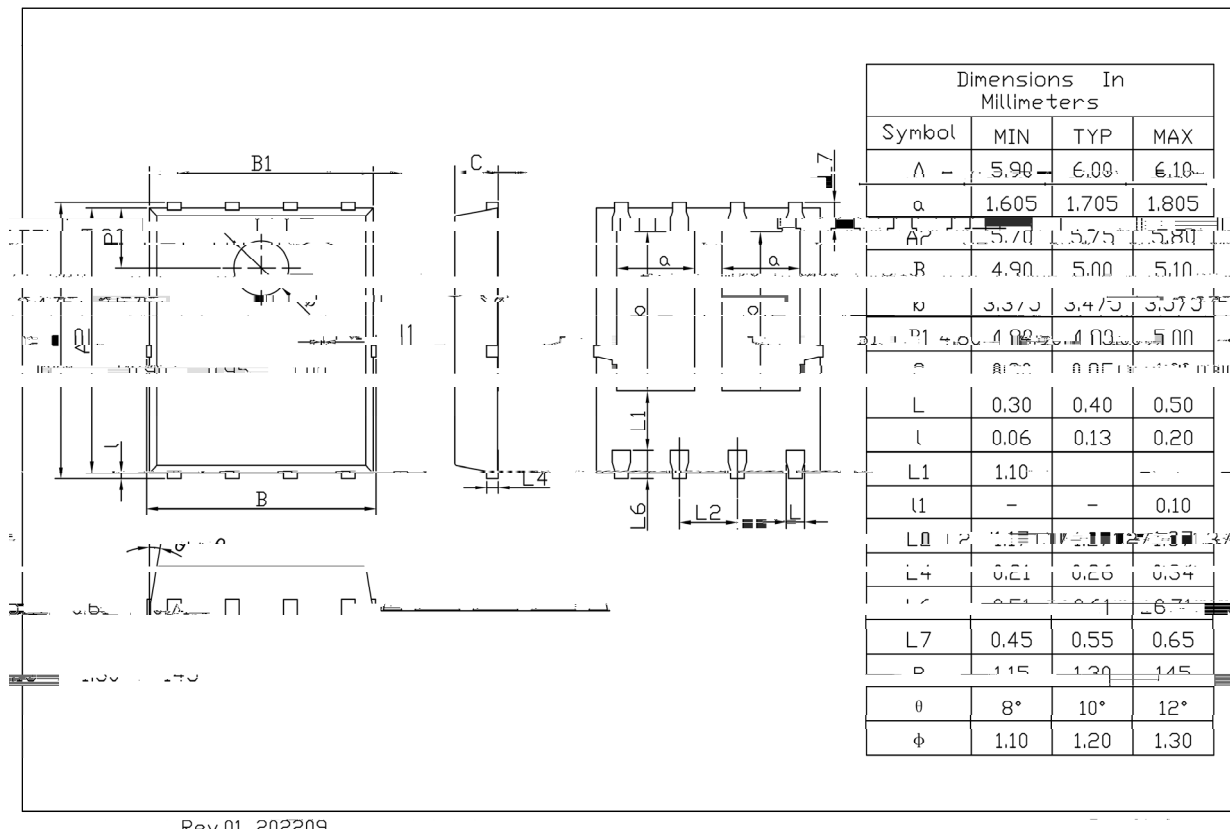
Electrical Characteristic Curve



Ø □ =) □ / Package Dimensions

PDFN5-X6A

Unit:mm



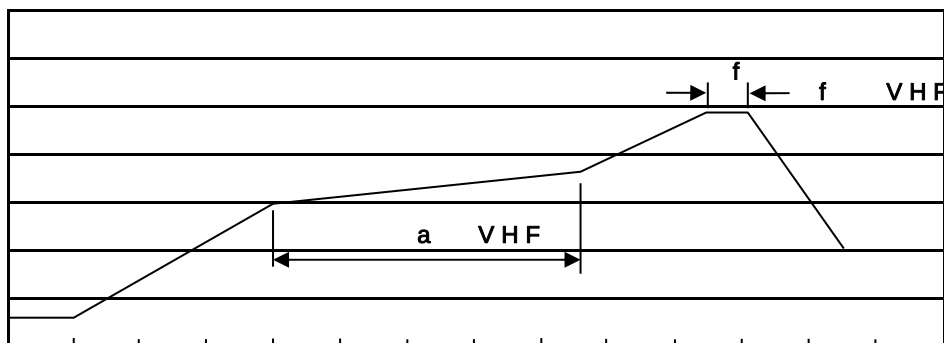
, M y f / Marking Instructions



^ ¢ y
(8 y , [W A
120N06S y D } ° Z
y ÿ D Z W A k š ÿ D Z J
Note y
BR y Company Code
120N06S y Product Type
****: Lot No. Code, code change with Lot No

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a č y

10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;

20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260 r5 -

Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type / x ¥ "	Units ;>û ĤH					Dimension ;>û p . (unit /mm³)		
	Units/Reel Q 2 &	Reels/Inner Box 2 & "	Units/Inner Box Q "	Inner Boxes/Outer Box " "	Units/Outer Box Q "	Reel	Inner Box	Outer Box
PDFN5×6A	5000	2	10000	6	60000	13"×12	360×360×50	380×335×366

„ Ð y f / Notices