

BRCS045N03YM

Rev.A May.-2024

/ Descriptions

PDFN5 6A N

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

/ Features

$V_{DS}(V)=30V$ $I_D=64A$

$R_{DS(ON)}@10V<4.5m\Omega$ (Typ. 4.3 m Ω)

$R_{DS(ON)}@4.5V<6.5m\Omega$ (Typ. 5.9 m Ω)

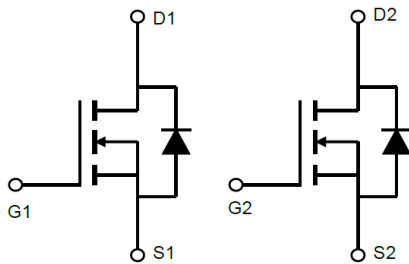
HF Product.

/ Applications

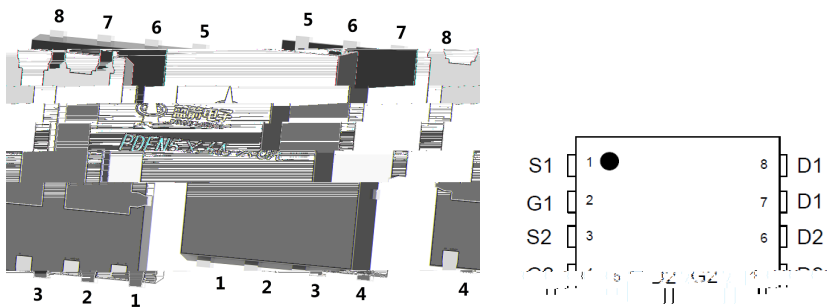
PWM LED

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

/ Equivalent Circuit



/ Pinning



/ Marking

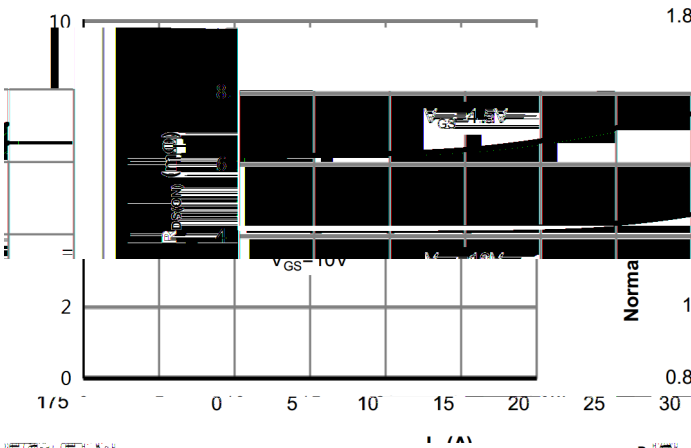
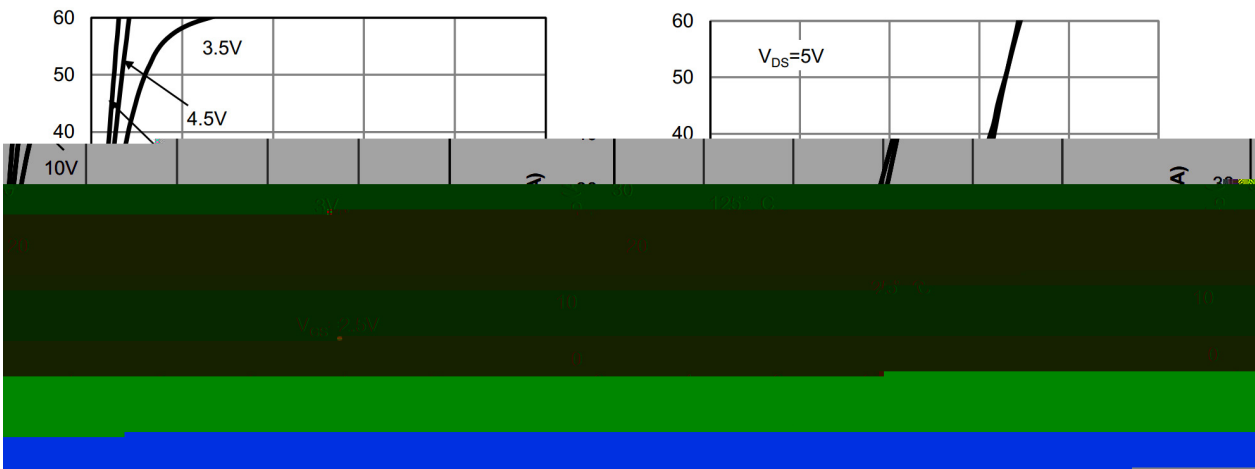
See Marking Instructions.

Parameter	Symbol	Rating	Unit
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/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{DS}=15\text{ V}$ $V_{GS}=10\text{V}$ $R_L=0.75\Omega$ $R_{GEN}=3\Omega$		13.1		ns
Turn-On Rise Time	t_r			15.4		ns
Turn-Off Delay Time	$t_{d(off)}$			42		ns
Turn-Off Fall Time	t_f			15		ns

/ Electrical Characteristic Curve



ce vs. Junction Temperature

Figure 3: On-Resistance vs. Drain Current and Gate Voltage

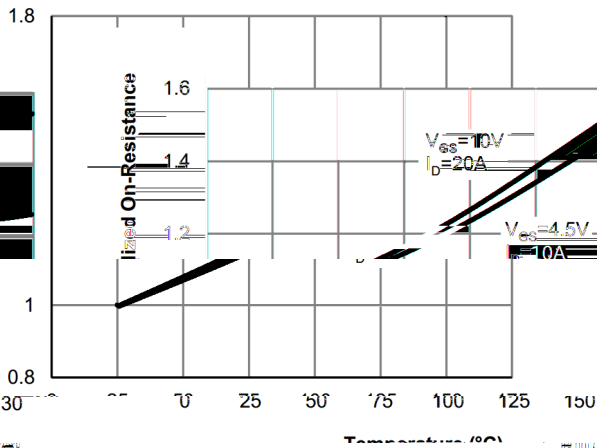


Figure 4: On-Resistan

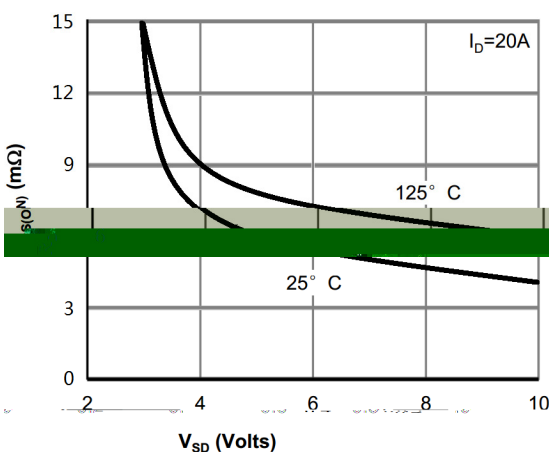


Figure 5: Drain Characteristics

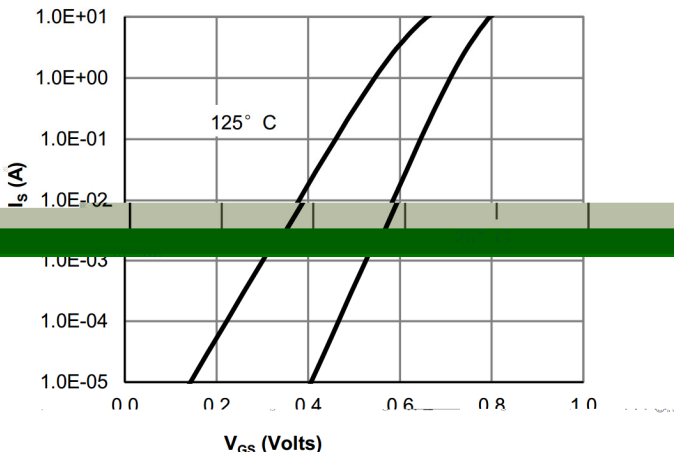
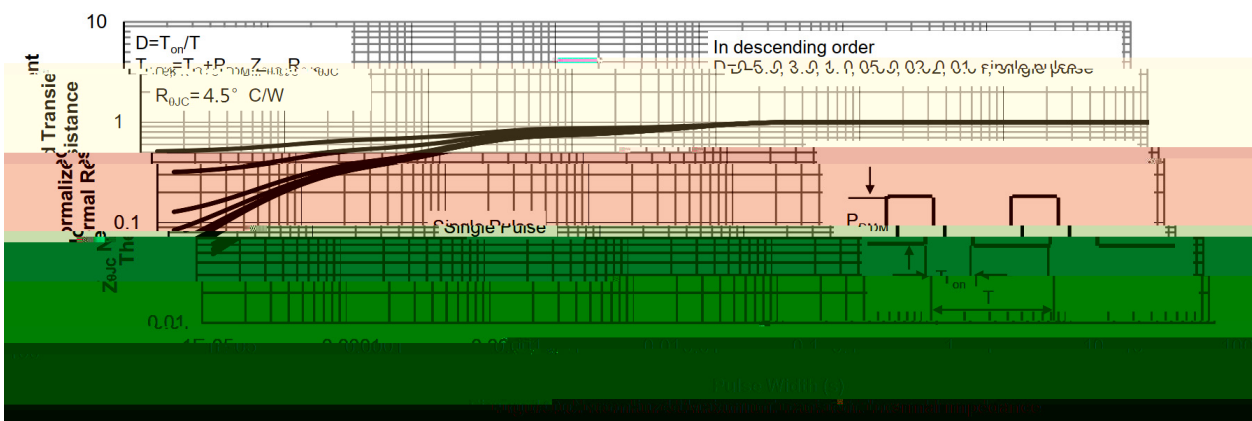
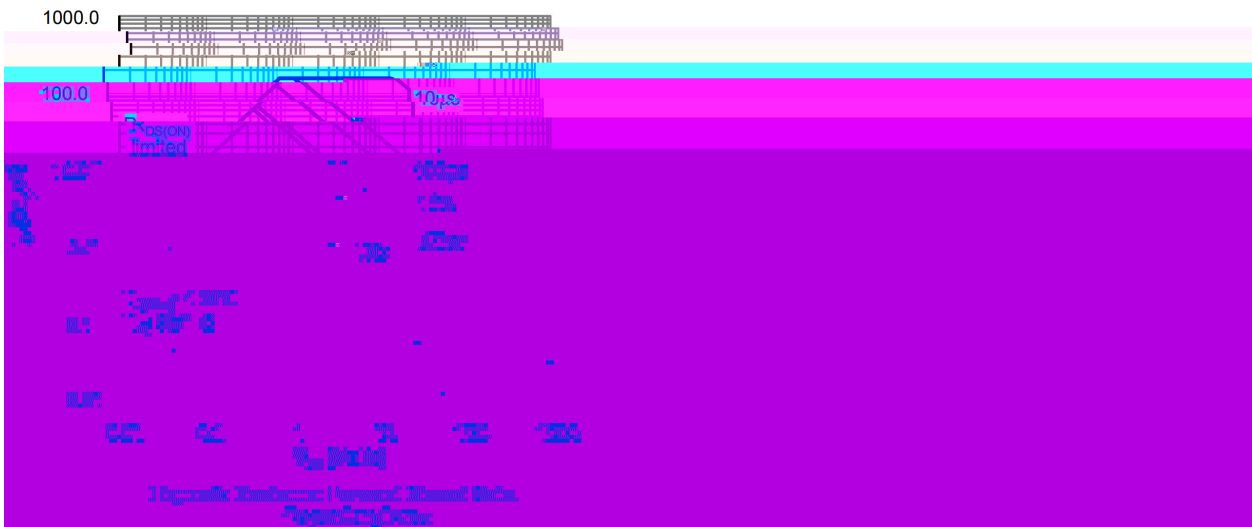
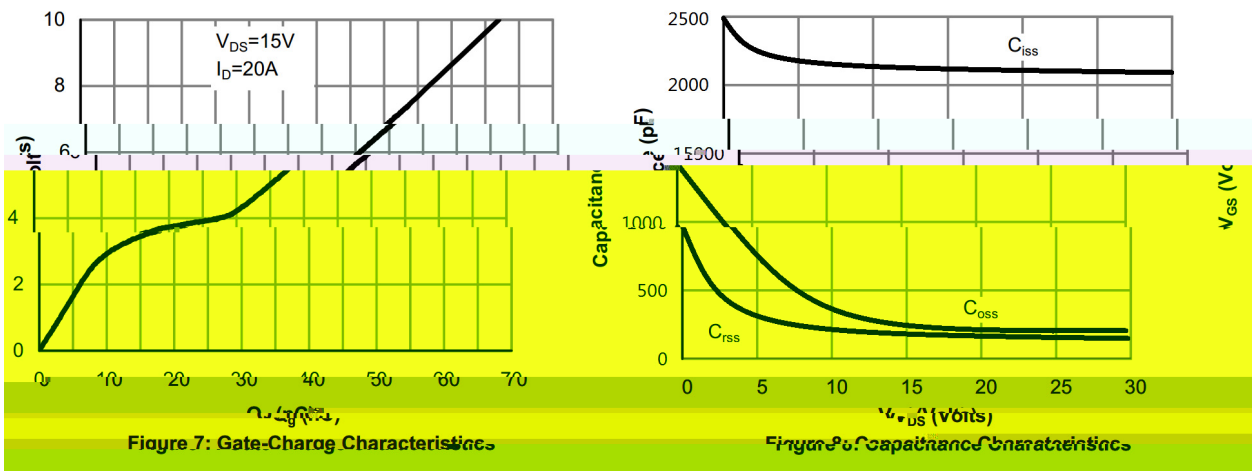


Figure 6: On-Resistance vs. Gate Voltage

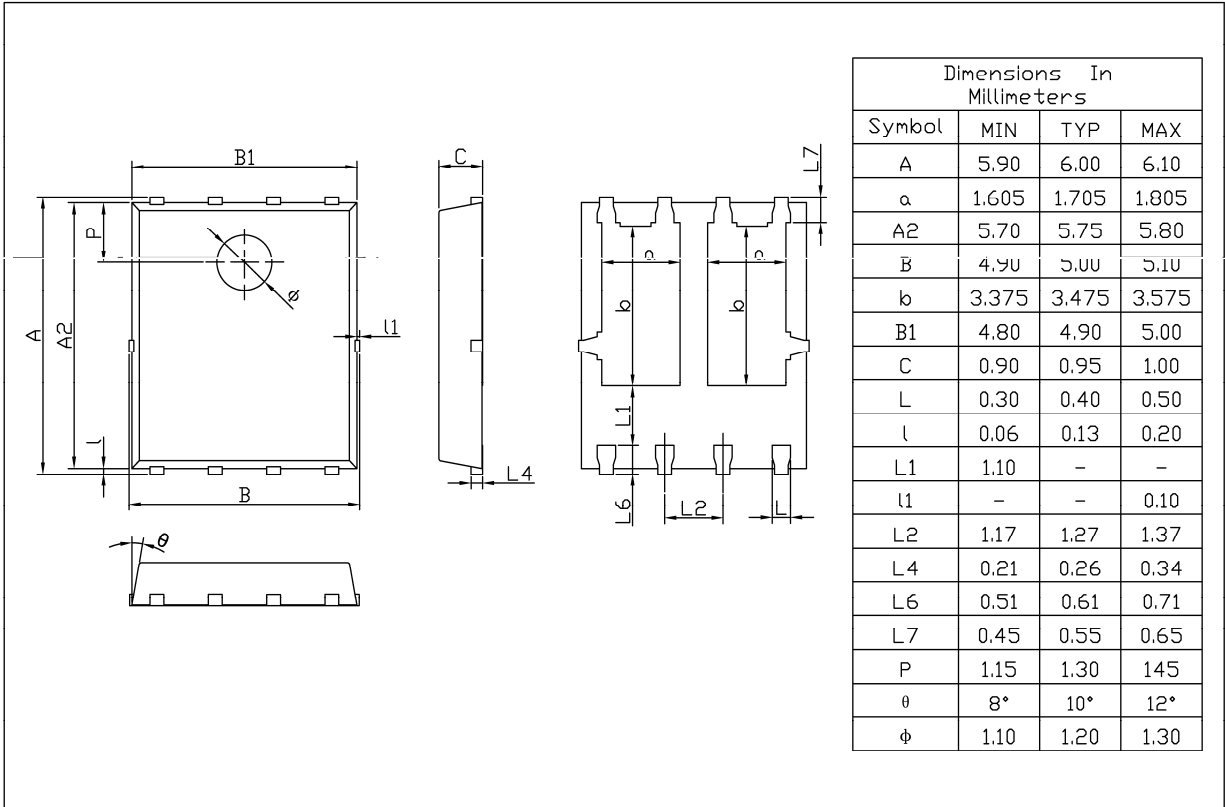
/ Electrical Characteristic Curve



I Package Dimensions

PDFN5 X6A

Unit:mm



Rev.01 202209

/ Marking Instructions



045N03

Note

BR	Company Code
045N03	Product Type Code
****:	Lot No. Code, code change with Lot No

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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET