

BRCS120N03YM

Rev.A May.-2023



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

PDFN5×6A N

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

Dual N-Ch

$V_{DS}(V)=30V$

$I_D=33A$

$R_{DS(ON)}<12m\Omega(V_{GS}=10V)$

$R_{DS(ON)}<20m\Omega(V_{GS}=4.5V)$

HF Product.

PWM

LED

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Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Drain Current	$I_D(T_c=25^\circ\text{C})$	33	A
Drain Current - Pulsed	I_{DM}	104	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	115	mJ
Avalanche Current	I_{AS}	17	A
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	21	W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to 150	

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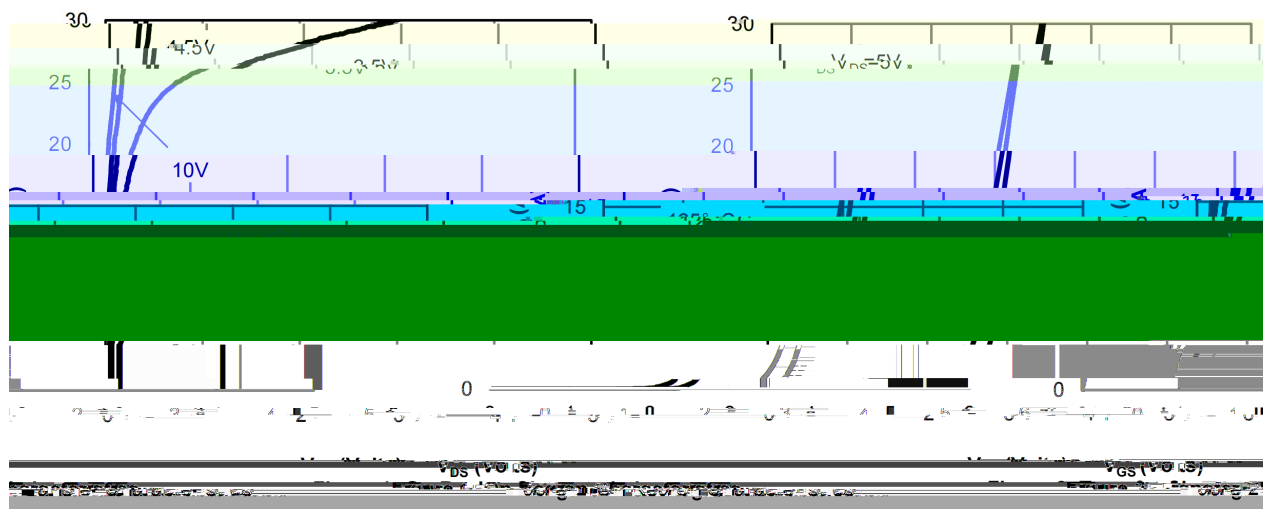


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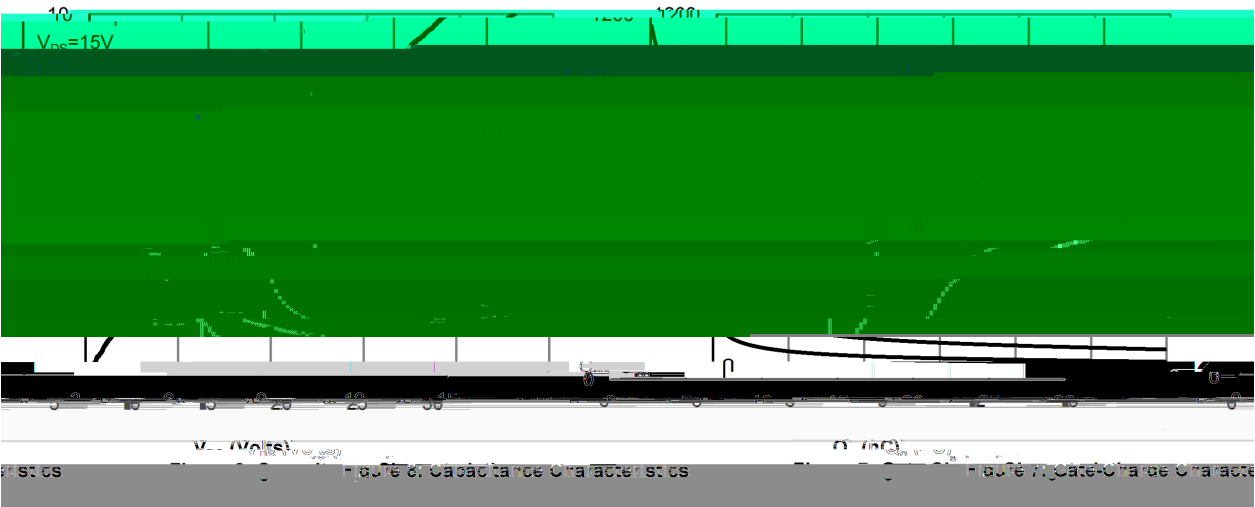
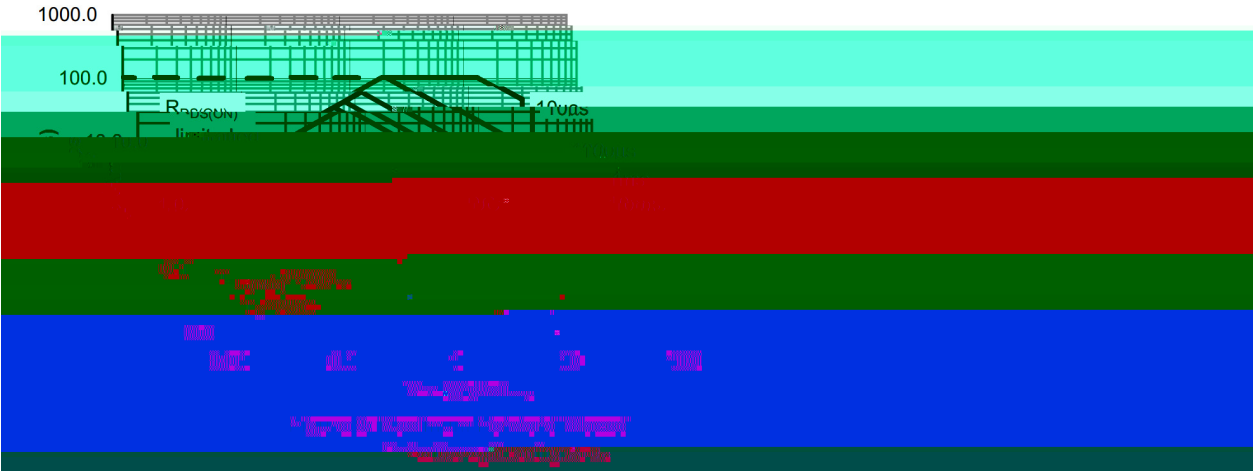
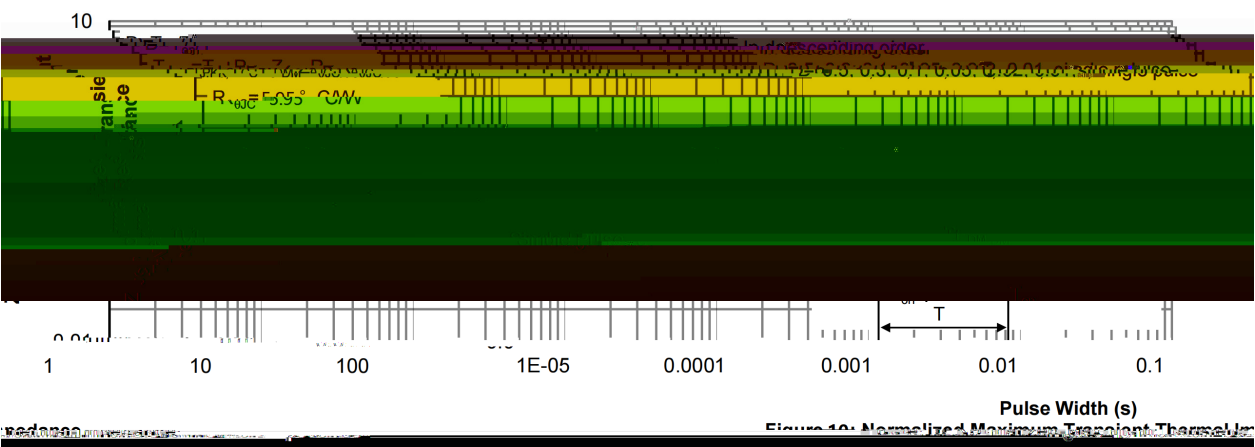
DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=15V$ $R_L=1.25\Omega$ $R_{GEN}=3\Omega$		4.5		ns
Turn-On Rise Time	t_r			10		

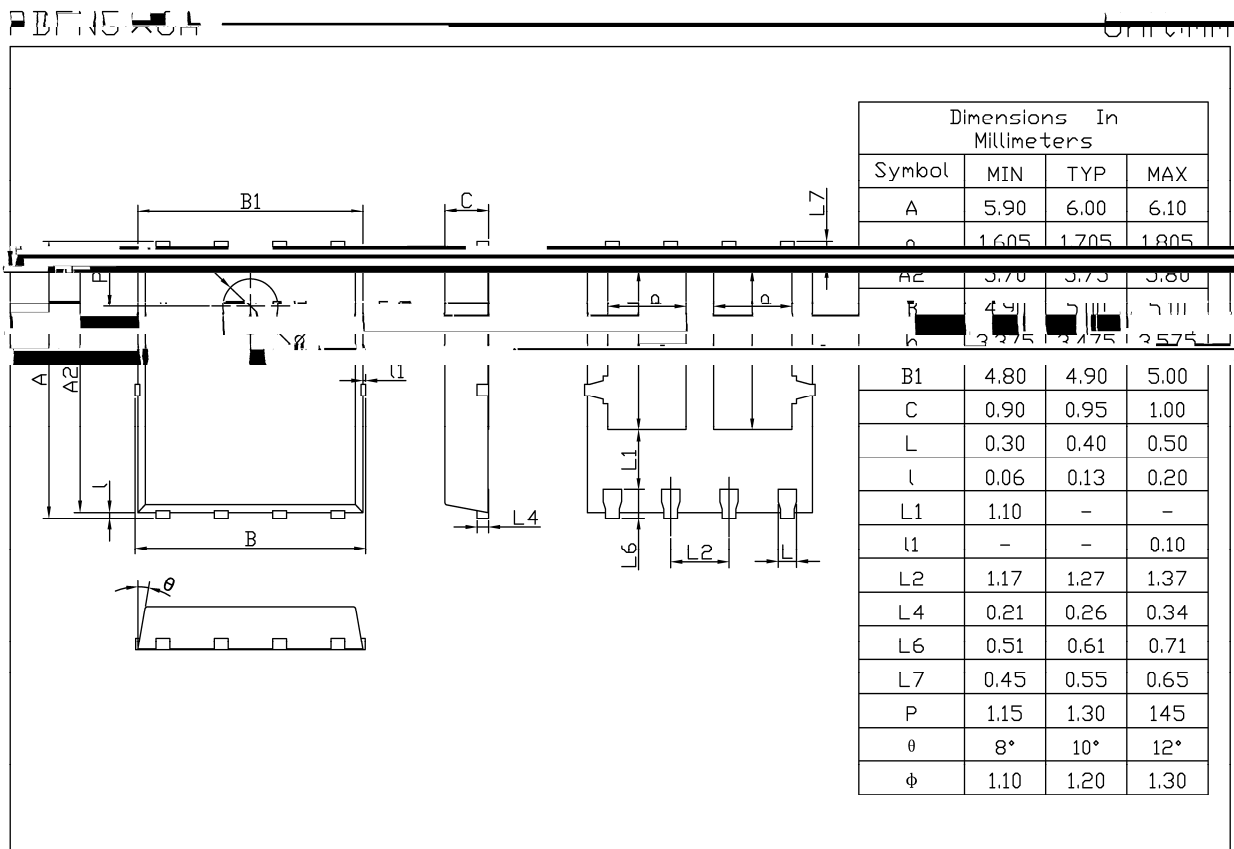
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions



Rev.01 202209

/ Marking Instructions



BR	
120N03	

Note	
BR	Company Code
120N03	Product Type Code
****:	Lot No. Code, code change with Lot No

