

$\tilde{a} \times d$ / Absolute Maximum Ratings($T_a=25^\circ\text{C}$;)

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V _{DSS}	40	V
Drain Current		I _D (T _c =25 °C)	60	A
Drain Current - Pulsed		I _{DM}	120	A
Gate-Source Voltage		V _{GS}	±20	V
Single Pulsed Avalanche Energy		E _{AS}	78.5	mJ
Avalanche Current		I _{AS}	15	A
Power Dissipation		P _D (T _c =25 °C)	37	W
Operating and Storage Temperature Range		T _J , T _{stg}	-55 to 150	
Thermal resistance, junction - ambient	t ≤ 10s	R _{θJA}	25	/ W
	Steady-State		55	
Thermal resistance, junction - case	Steady-State	R _{θJC}	3.4	

$\hat{a} \times d$ / Electrical Characteristics($T_a=25^\circ\text{C}$;)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DS}	$V_{GS}=0V$ $I_D=250\mu A$	40	46		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=40V$ $V_{GS}=0V$			1	A
Gate-Body Leakage Current Forward	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			± 0.1	A
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	1.0	1.6	2.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=20A$		5.6	6	m Ω
		$V_{GS}=4.5V$ $I_D=10A$		7.8	9	m Ω
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=1A$			1.2	V
Input Capacitance	C_{iss}	$V_{DS}=25V$ $V_{GS}=0V$ $f=1.0MHz$		990		pF
Output Capacitance	C_{oss}			390		
Reverse Transfer Capacitance	C_{rss}			42		
Gate resistance	R_g	$V_{GS}=0V$ $V_{DS}=0V$ $f=1MHz$		5.2		
Total Gate Charge	$Q_{g(10V)}$	$V_{GS}=10V$ $V_{DS}=20V$ $I_D=20A$		20		nC
Total Gate Charge	$Q_{g(4.5V)}$			8.4		
Gate Source Charge	Q_{gs}			5.5		
Gate Drain Charge	Q_{gd}			3.0		

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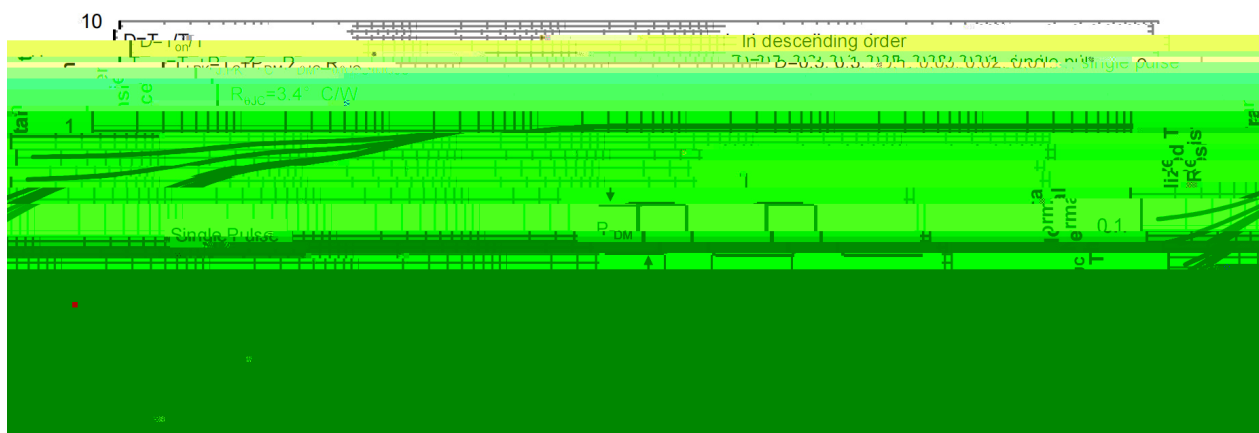
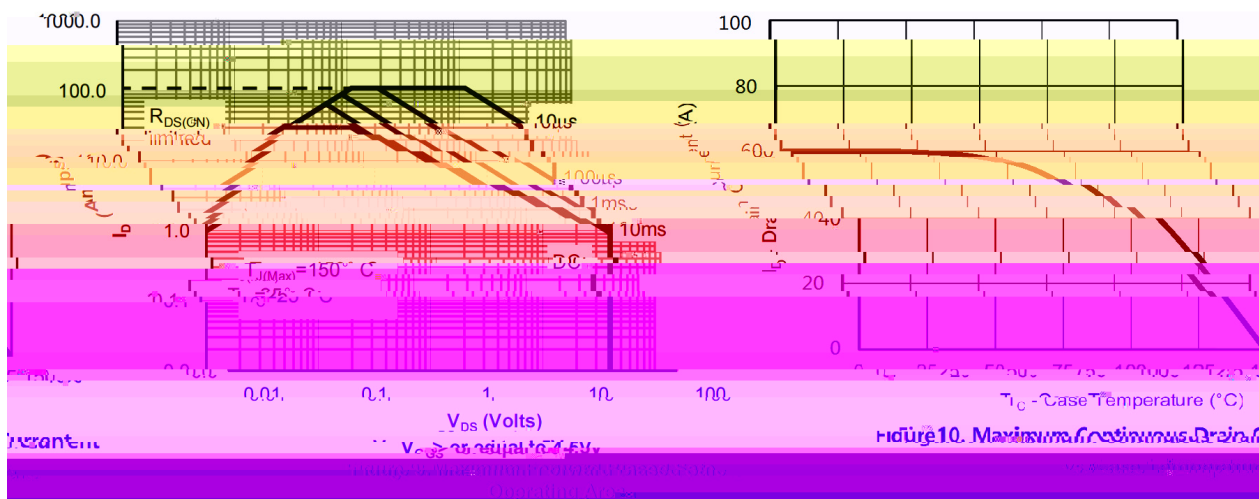
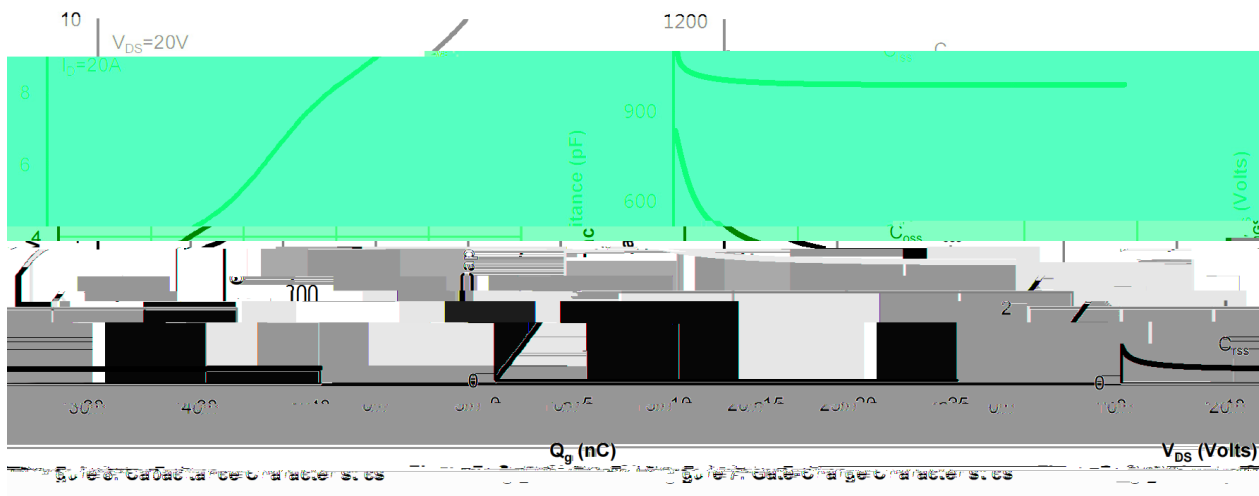
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=20V$ $R_L=1.0$ $R_{GEN}=3.0$		7.5		ns
Turn-On Rise Time	t_r			2		
Turn-Off Delay Time	$t_{d(off)}$			23.5		
Turn-Off Fall Time	t_f			3.2		
Reverse Recovery Time	t_{rr}	$I_F=10A$, $di_F/dt=200A/\mu S$		17		ns

Electrical Characteristic Curve



电 阻 器 / Electrical Characteristic Curve



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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

Ø □ =) ¢ / Package Dimensions

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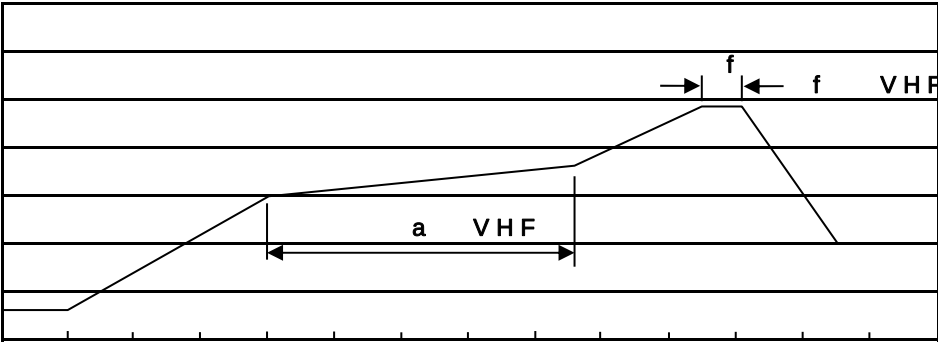
BRy Company Code

060N04Sy Product Type Code

****: Lot No. Code, code change with Lot No

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7HPSHUDWXUH



7LPH VHF

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- Note:
- 1. 150Ω 180Ω 60Ω 90sec; 1.Preheating:150~180- , Time:60~90sec.
 - 2. 245 r5 5 r0.5sec; 2.Peak Temp.:245 r5- , Duration:5 r0.5sec.
 - 3. 2Ω 10- /sec. 3. Cooling Speed: 2~10- /sec.

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

ψ 260 r5- ŷ 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

⌘ / REEL

Package Type ⌘	Units ;>û Ĥ					Dimension ;>û p . (unit /Ĥmm³)		
	Units/Reel ⌘	Reels/Inner Box ⌘	Units/Inner Box ⌘	Inner Boxes/Outer Box ⌘	Units/Outer Box ⌘	Reel	Inner Box	Outer Box
PDFN5×6	5,000	2	10,000	6	60,000	13"×12	360×360×50	380×335×366

„Đ y f / Notices