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4-CHANNEL MOSFET in a SOT-23 Plastic Package.

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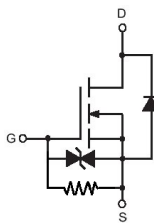
High Power and Current Handling Capability, Integrated Gate-Source Resistance, ESD Rating HBM Ú 4KV, HF Product.

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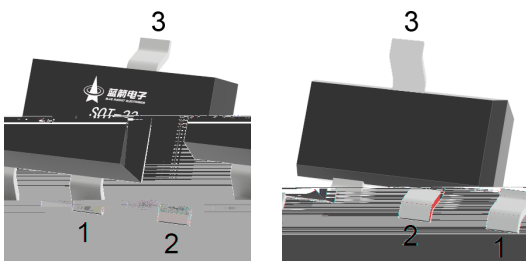
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PWM application, Load switch, Power Management

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See Marking Instructions.

Table 1: Absolute Maximum Ratings

Unit

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	80	V
Drain Current	I_D	2.2	A
Drain Current - Pulsed	I_{DM}	9	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	P_D	2	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 ~ 150	
Maximum Junction-to-Ambient	$R_{\theta JA}$	62.5	$^{\circ}C/W$
Maximum Junction-to-Ambient	Steady-State	102	$^{\circ}C/W$
Maximum Junction-to-Lead	Steady-State	55	$^{\circ}C/W$

Table 2: Electrical Characteristics

Unit

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V, I_D=250 \mu A$	80	90		V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250 \mu A$	2	3	4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V, I_D=1A$		188	250	m Ω
		$V_{GS}=6V, I_D=1A$		280	350	m Ω
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=60V, V_{GS}=0V$			-1.0	A
Gate-Body leakage current	I_{GSS}	$V_{GS}=\pm 20V, V_{DS}=0V$			± 500	A
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V, I_S=1A$			1.2	V
Gate resistance	R_g	$f=1MHz$		3.7		
Gate-Source Resistance	R_{GS}			50		K Ω
Input Capacitance	C_{iss}	$V_{DS}=25V, V_{GS}=0V, f=1.0MHz$		72		pF
Output Capacitance	C_{oss}			34		
Reverse Transfer Capacitance	C_{rss}			12		
Total Gate Charge	Q_g	$V_{DS}=40V, V_{GS}=10V, I_D=1.5A$		2.2		nC
Gate-to-Source Charge	Q_{gs}			0.56		
Gate-to-Drain Charge	Q_{gd}			0.42		
Turn-On Delay Time	$t_{d(on)}$	$V_{DS}=40V, V_{GS}=10V, I_D=1.5A, R_{GEN}=2\Omega$		7.8		ns
Turn-On Rise Time	t_r			1.5		
Turn-Off Delay Time	$t_{d(off)}$			11		
Turn-Off Fall Time	t_f			6.7		

Electrical Characteristics

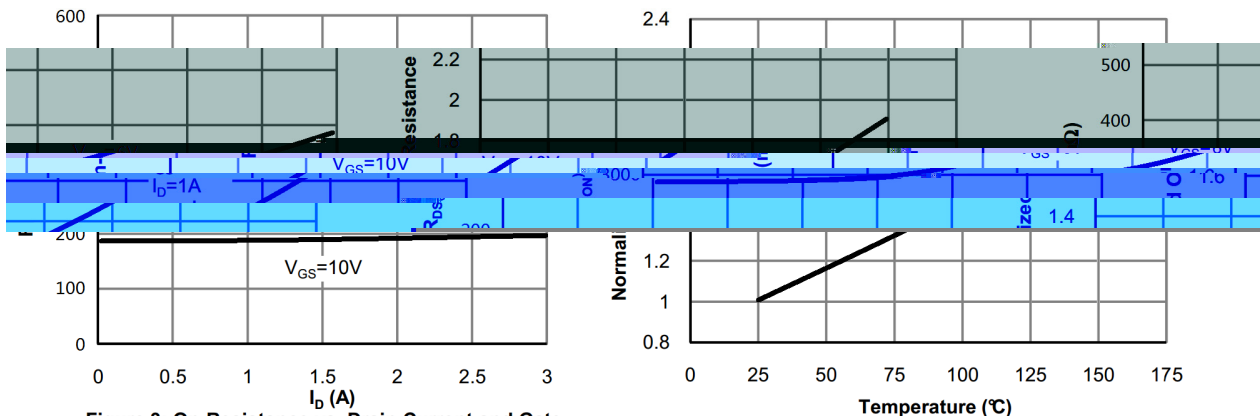
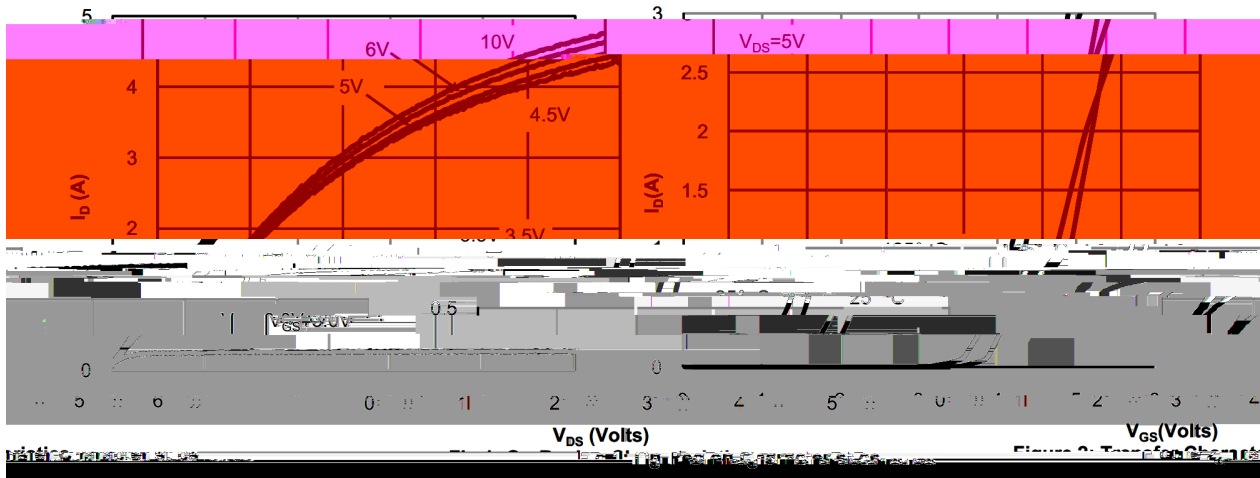
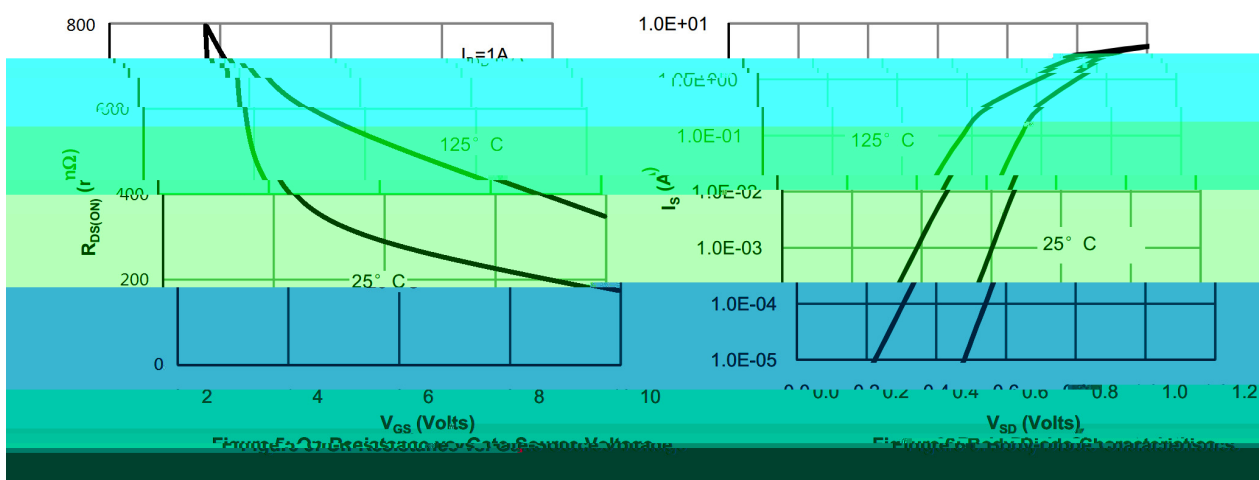
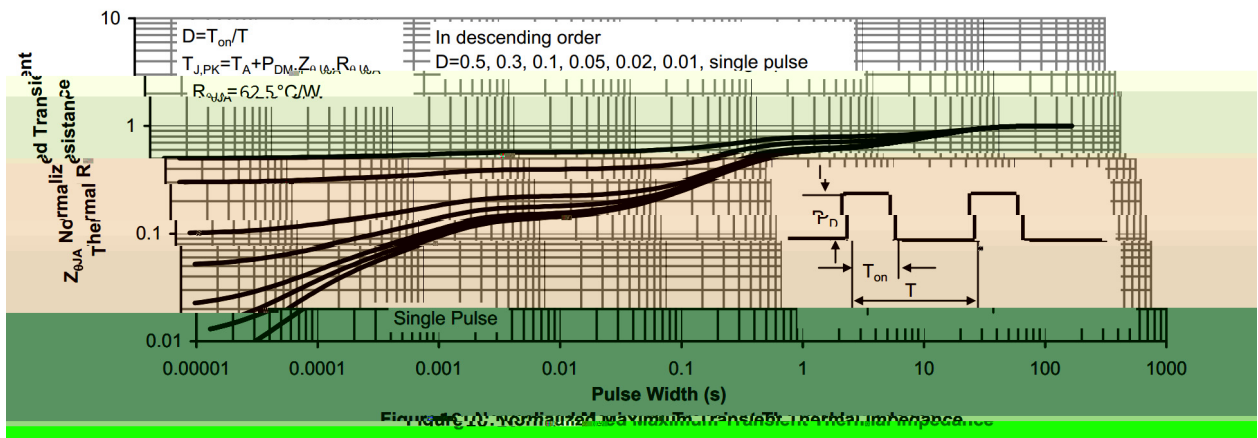
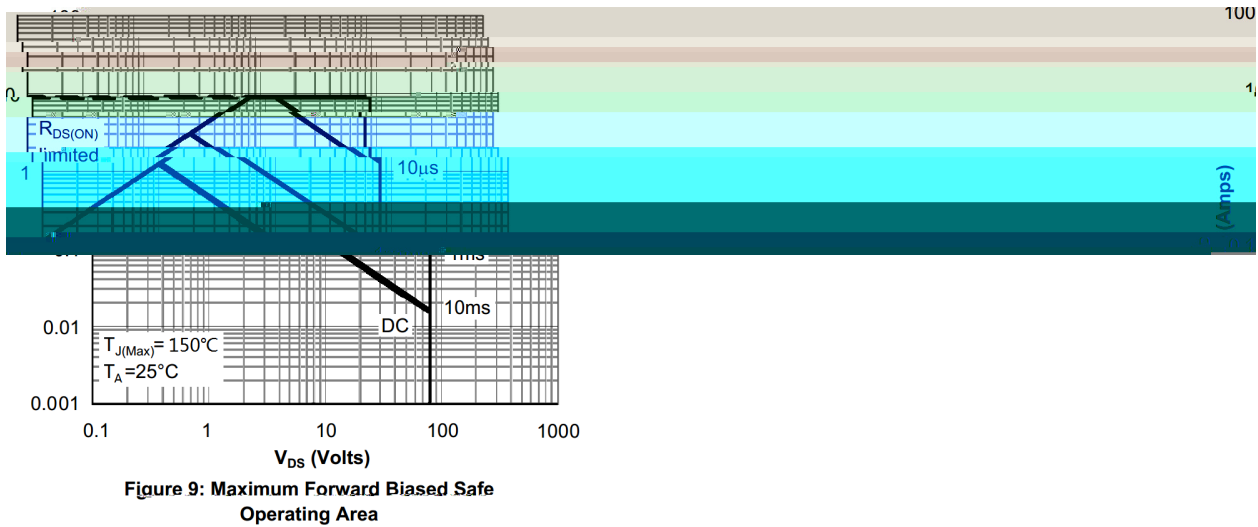
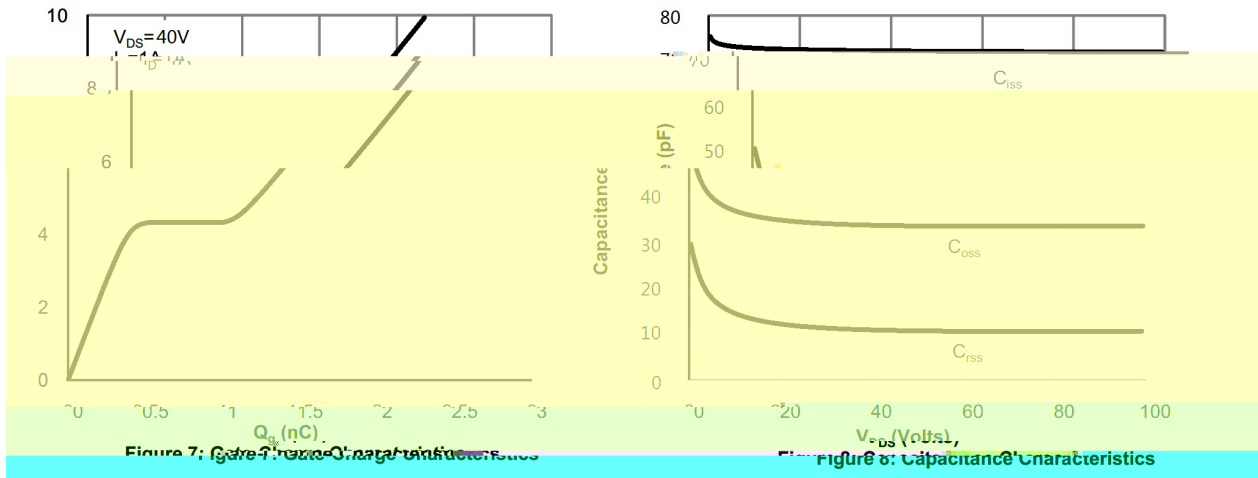


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

Figure 4: On-Resistance vs. Junction Temperature



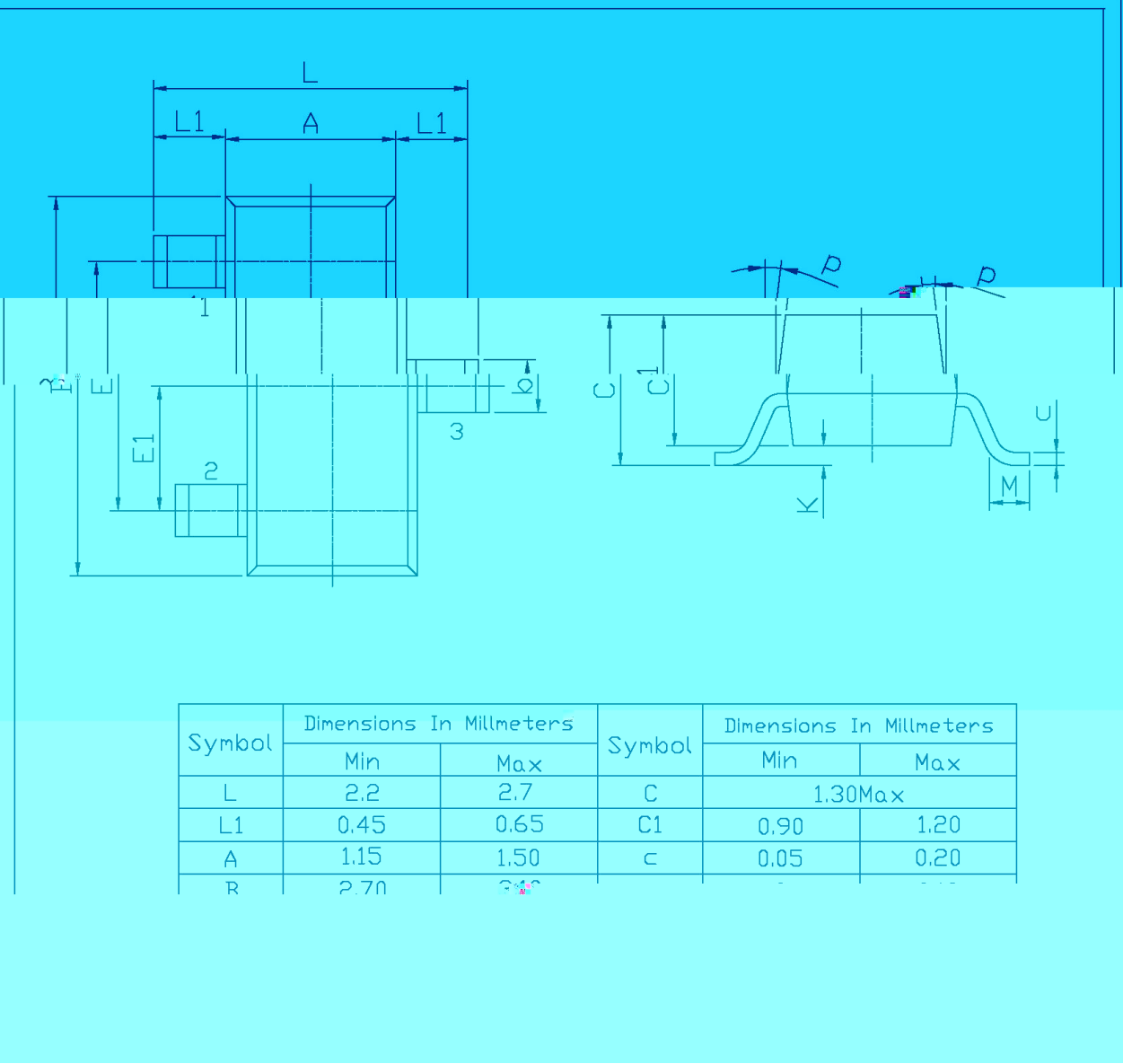
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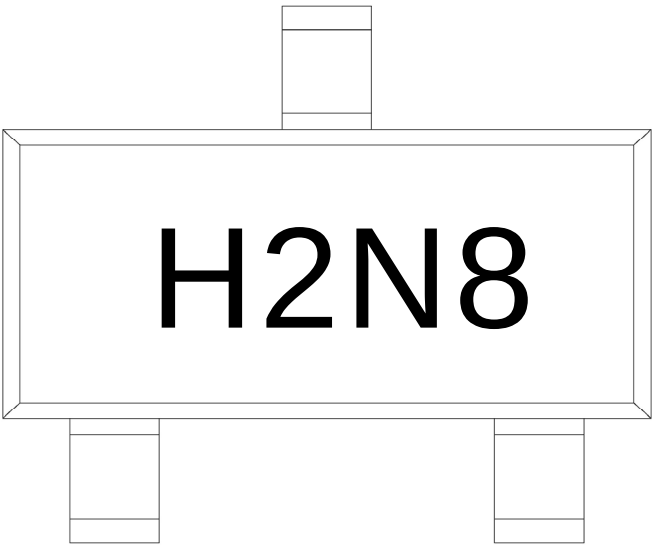
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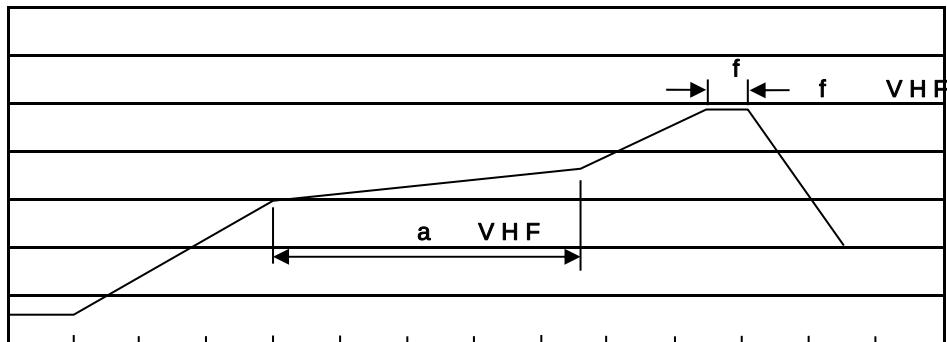


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2N8 y °ZWA

Note:
Hy Company Code
2N8: Product Type

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7HPSHUDWXUH



7LPH VHF

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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.

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“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260 r5 -

Time:10 r1 sec

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2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT-23	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

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