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SOT23-3 .> / / x P 3 « | • ’ož

6 CHANNEL MOSFET in a SOT23 -3 Plastic Package.

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V_{DS}=-60V; I_D=-3A

$R_{DS(on)1}$@-10V 0 100m ¡ (Type.83m ¡)

$R_{DS(on)2}$@-4.5V 0 130m ¡ (Type.100m ¡)

—)í D }ož HF Product.

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PWM application & Load switch.

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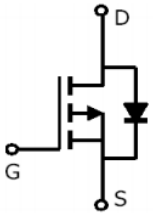

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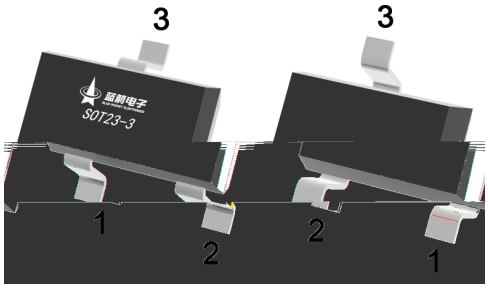

PIN1 y G PIN 2 y S PIN 3 y D

, M V □ □ □□ □ □ □ □□ □□ □ □

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See Marking Instructions.

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@ ƒ Parameter	… Z Symbol	ƒ › Rating	% y Unit
Drain–Source Voltage	V_{DSS}	-60	V
Gate–Body Leakage Voltage	V_{GSS}	±20	V
Drain Current – Continuous	I_D	-3	A
Pulsed Drain Current	I_{DM}	-16	A
Power Dissipation	P_D	1.4	W
Operating and Storage Temperature Range	T_J,T_{STG}	-55 150	
Maximum Junction-to-Ambient	R ©JA	89	/W

□

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□ GS

@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Drain–Source Breakdown Voltage	$V_{(BR)DSS}$	V_{GS}=0V I_D=-250 A	-60	-65		V
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=-250 A	-1	-1.6	-2.5	V
Static Drain–Source On–Resistance	$R_{DS(on)}$	V_{GS}=-10V I_D=-2A		83	100	m
		V_{GS}=-4.5V I_D=-1A		100	130	m
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-60V GS V_{GS}=0V			-1.0	A
Gate-Body leakage current	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±100	nA
Drain-Source Diode Forward Voltage	V_{SD}	V_{GS}=0V I_S=-1A T_J=25			-1.2	V
Gate resistance	R_g	f=1MHz		6.5		

Input CapaInput Ca552 3610.4958z56TJ 71RC03 Tm 0 Tc 0 Tw (g)Tj 1 0 Inp3resista2356.1 381.5iss03 Tm 0 Tc=(T)Tj

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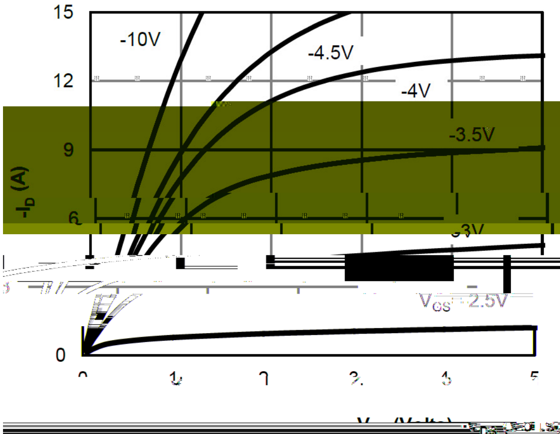

Figure 1: On-Region Characteristics

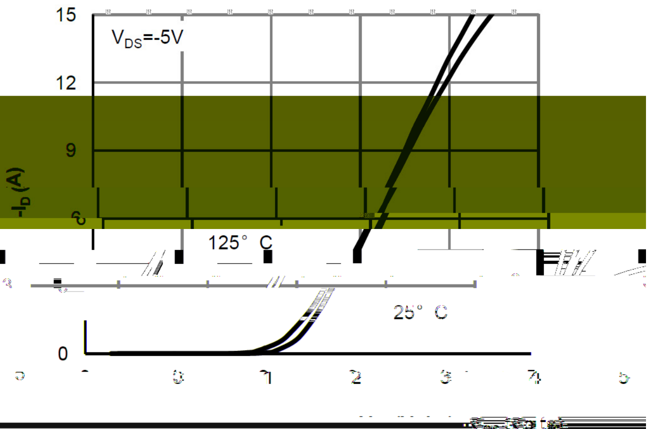

Figure 2: Transfer Characteristics

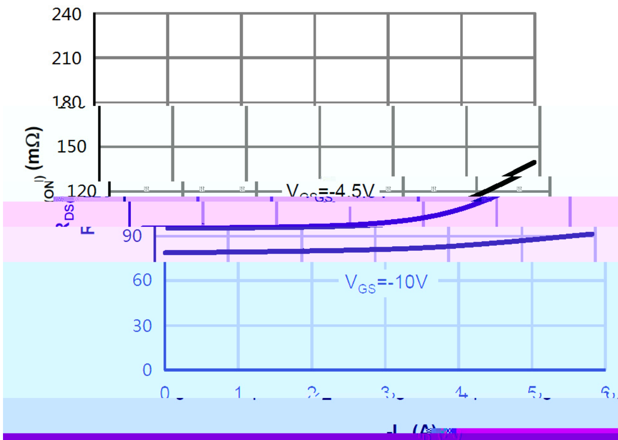

Figure 3: On-Resistance vs. Drain Current and Gate Voltage

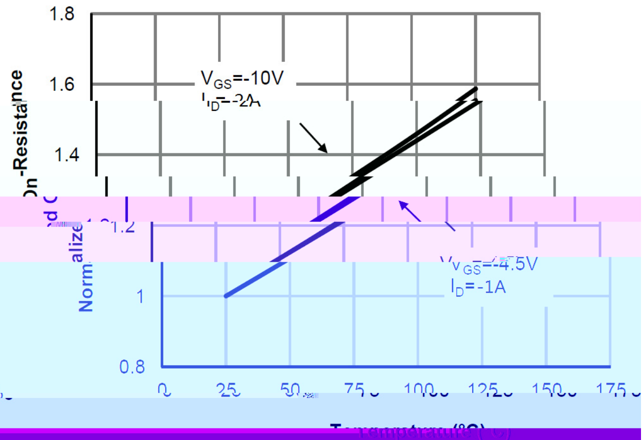

Figure 4: On-Resistance vs. Junction Temperature

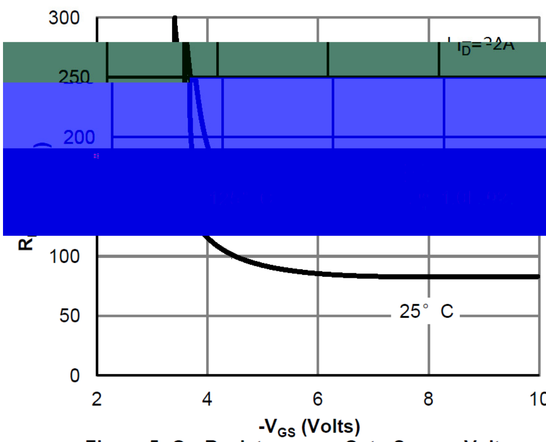

Figure 5: On-Resistance vs. Gate-Source Voltage

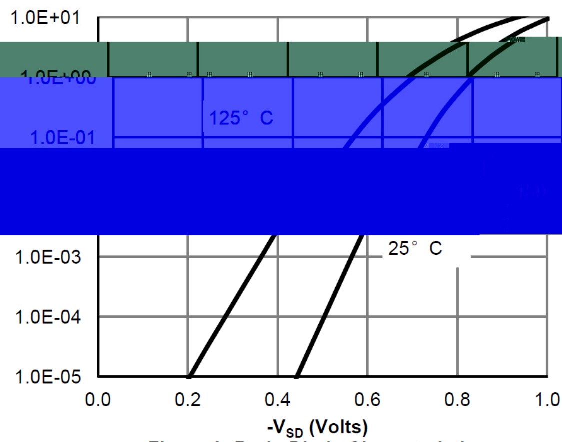

Figure 6: Body-Diode Characteristics

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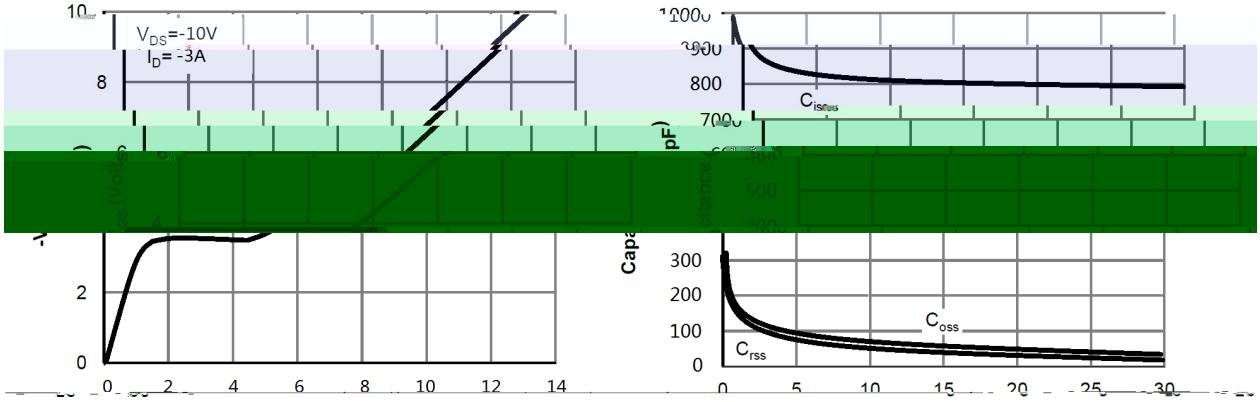
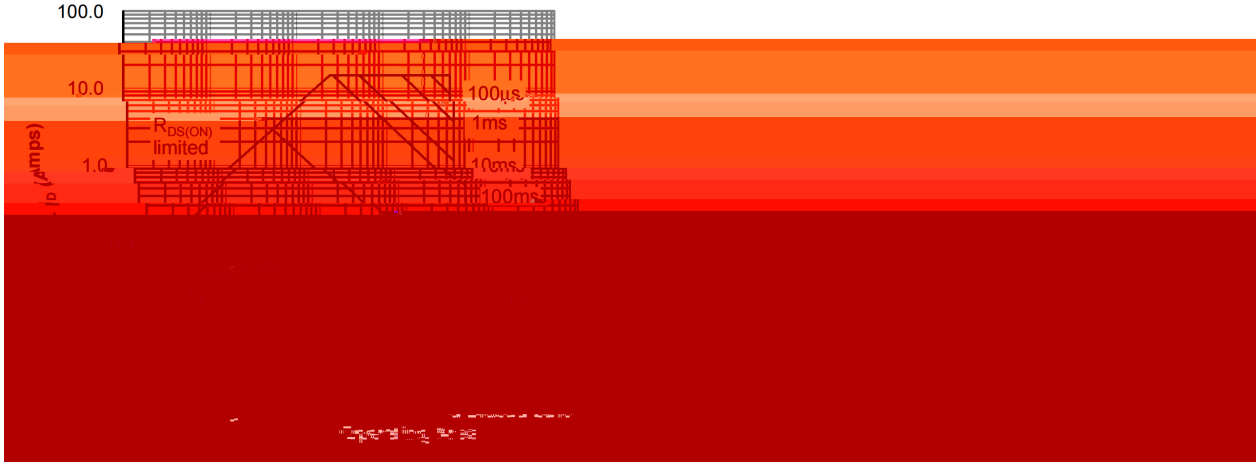


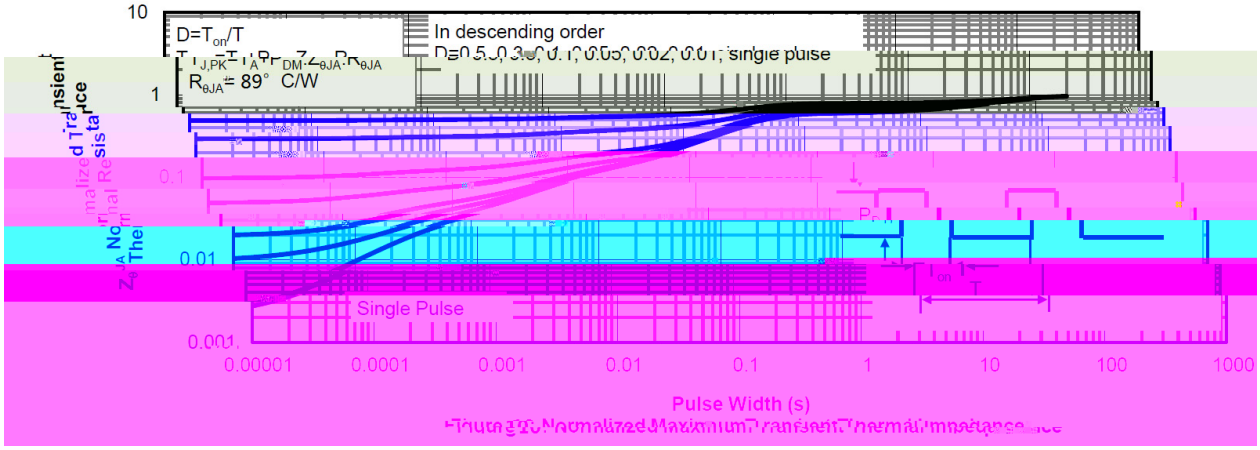
Q_g (nC)

Figure 7: Gate-Charge Characteristics

$-V_{DS}$ (Volts)

Figure 8: Capacitance Charac





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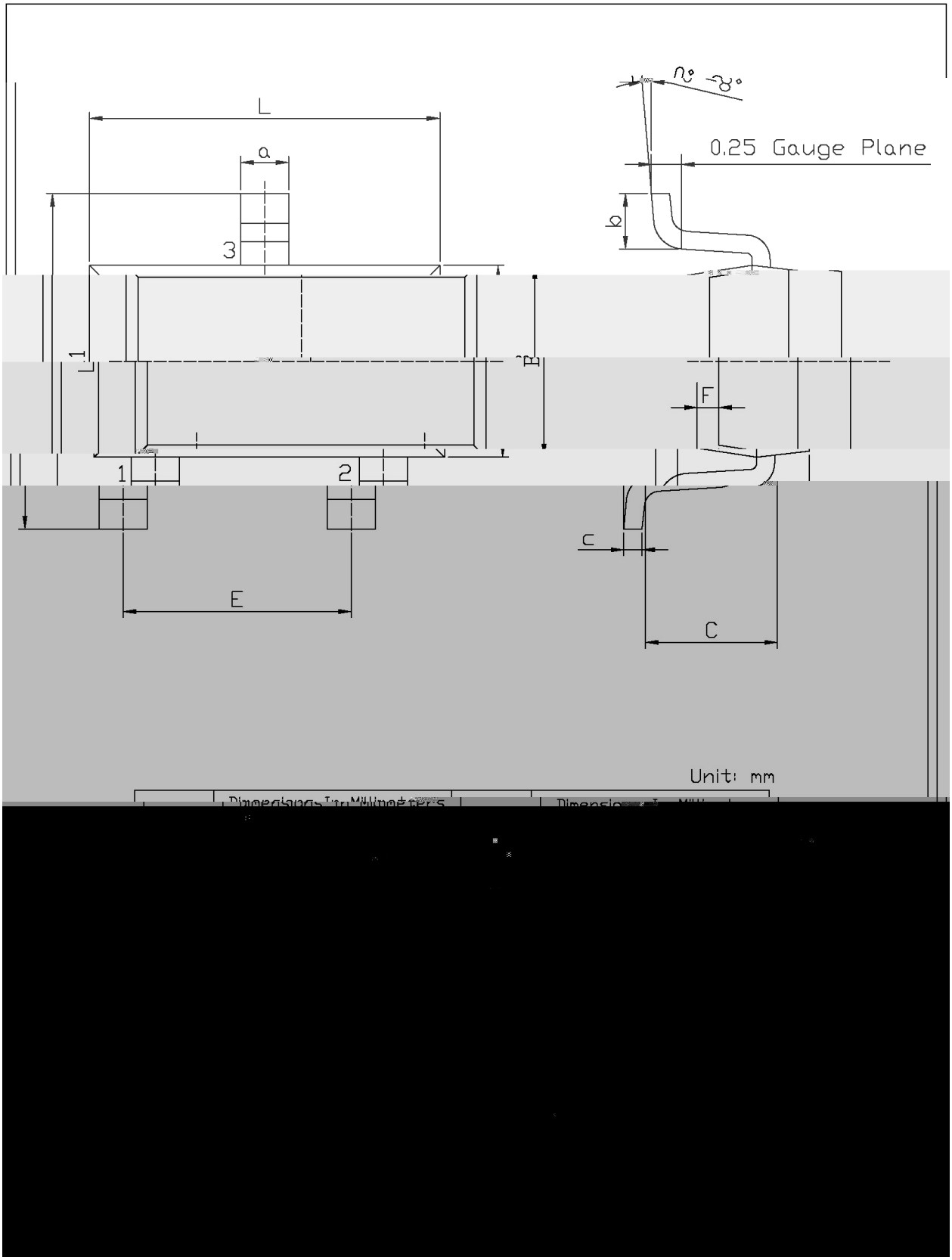

Rev.B Aug.-2025

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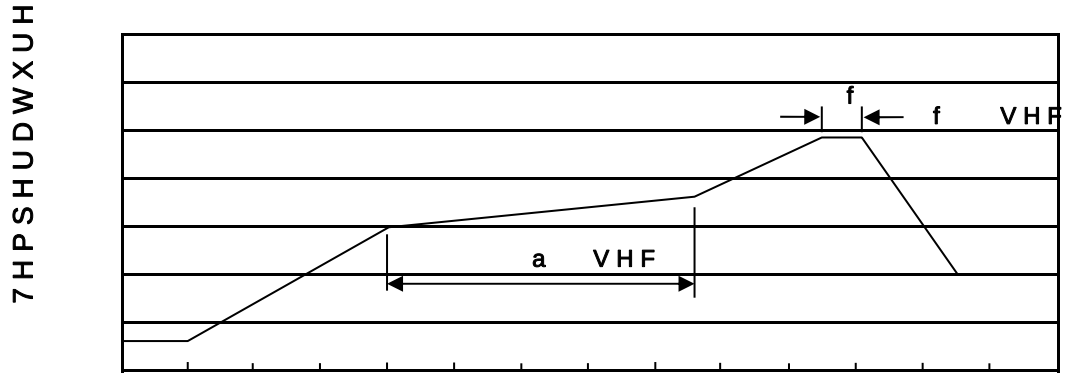

7 L P H V H F

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1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•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 /Cã p ¯ »]

“ † y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

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2 & x / REEL

Package Type 7>û ˜ E	Units ;>û ¦H					Dimension ;>û p . (unit Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
SOT23-3	3,000	10	30,000	4	120,000	7 s ×8	210×205×205	445×435×230

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