

5 é / Descriptions

SOT23-3 .> // x P 3 « | • 'ož

6 CHANNEL MOSFET in a SOT23 -3 Plastic Package.

□ a / Features

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

$R_{DS(on)1@-10V} 0.100m\Omega$ (Type.83m Ω)

$R_{DS(on)2@-4.5V} 0.130m\Omega$ (Type.100m Ω)

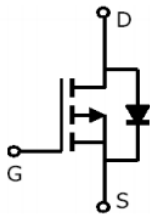
—)í D }ož HF Product.

Đ ÷ / Applications

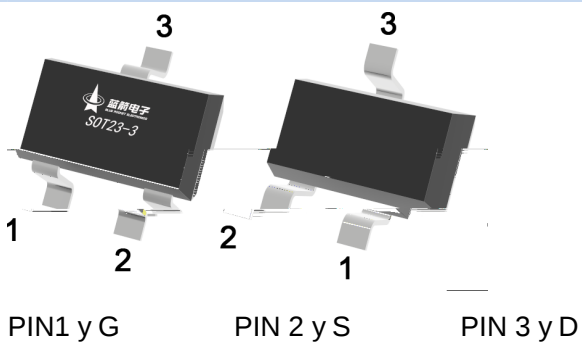
6 = 3 • ħ ú • ¼ož

PWM application & Load switch.

Ã W] Ô · / Equivalent Circuit



• Ů - æ / Pinning



, M V / Marking

• - ~ a ¢ož

See Marking Instructions.

@ f Parameter	... Z Symbol	f > 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 _{θJA}	89	/W

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > 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 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 Capa558 0 0 10.5 55.98 304.348 39803 Tm 56.18 137.06 4-8863 T(C10.4958 0 0 10.5 250.08 7. [(3

Electrical Characteristic Curve

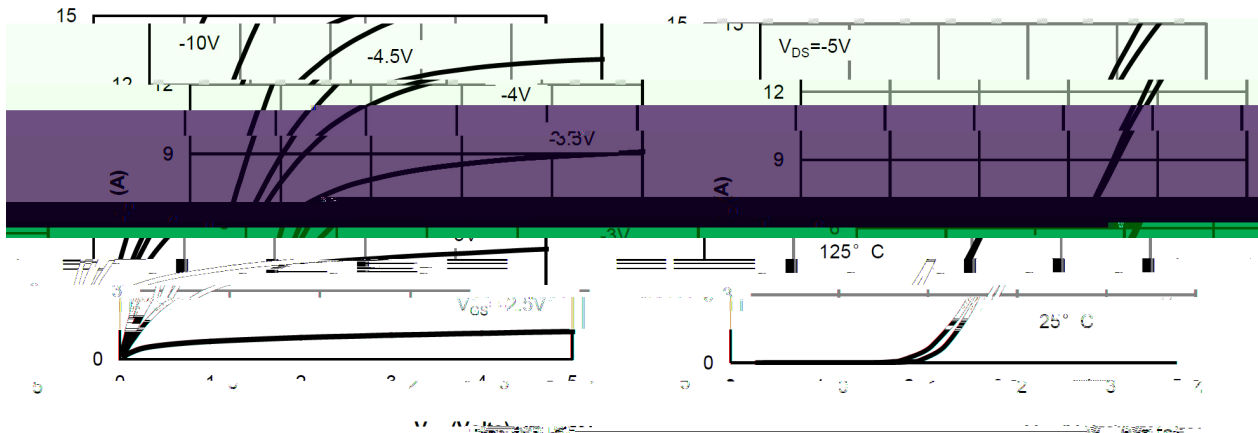


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics

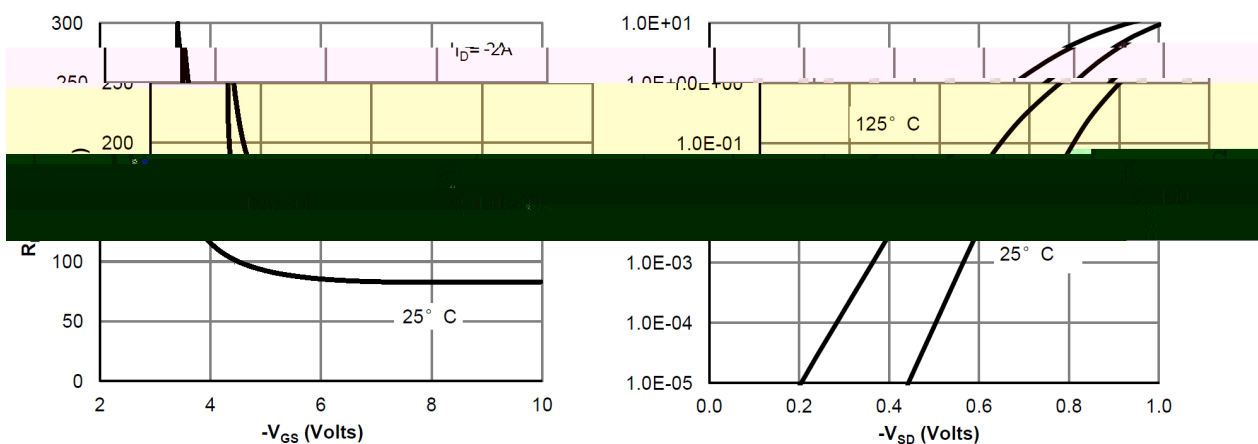
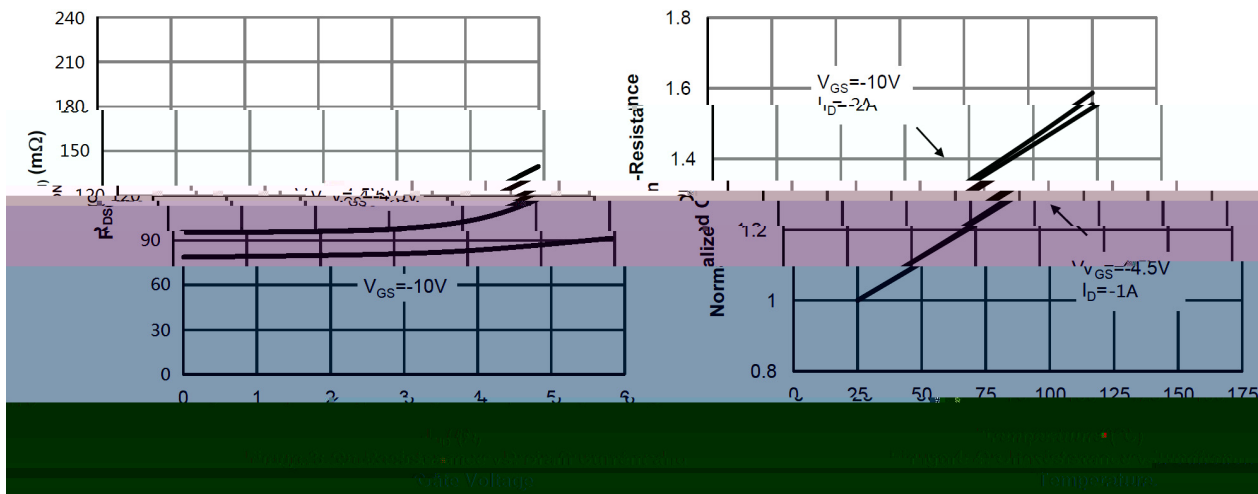
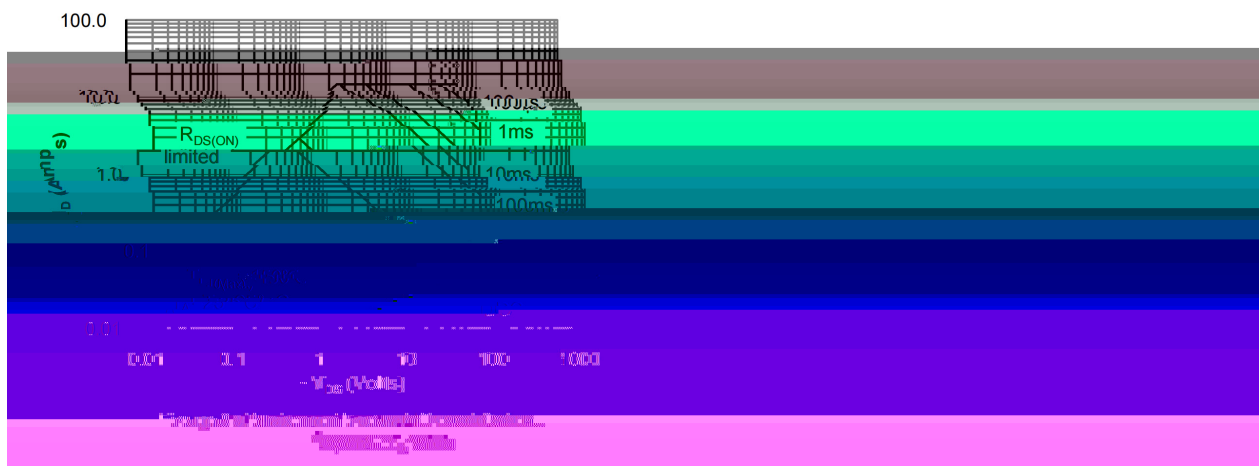
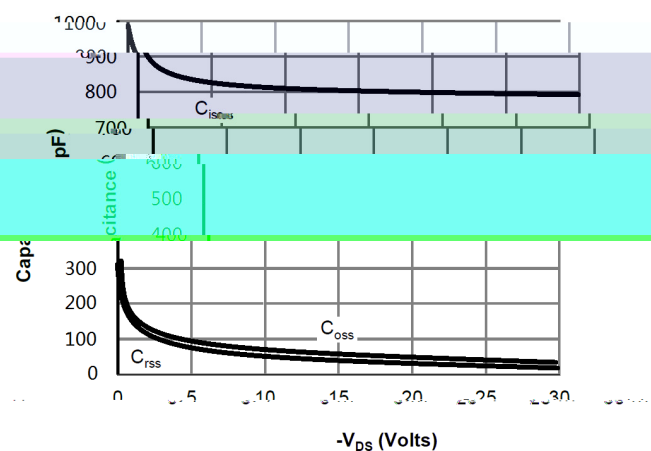
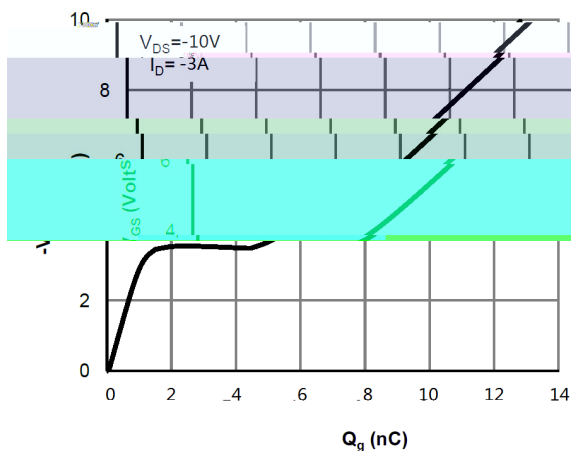


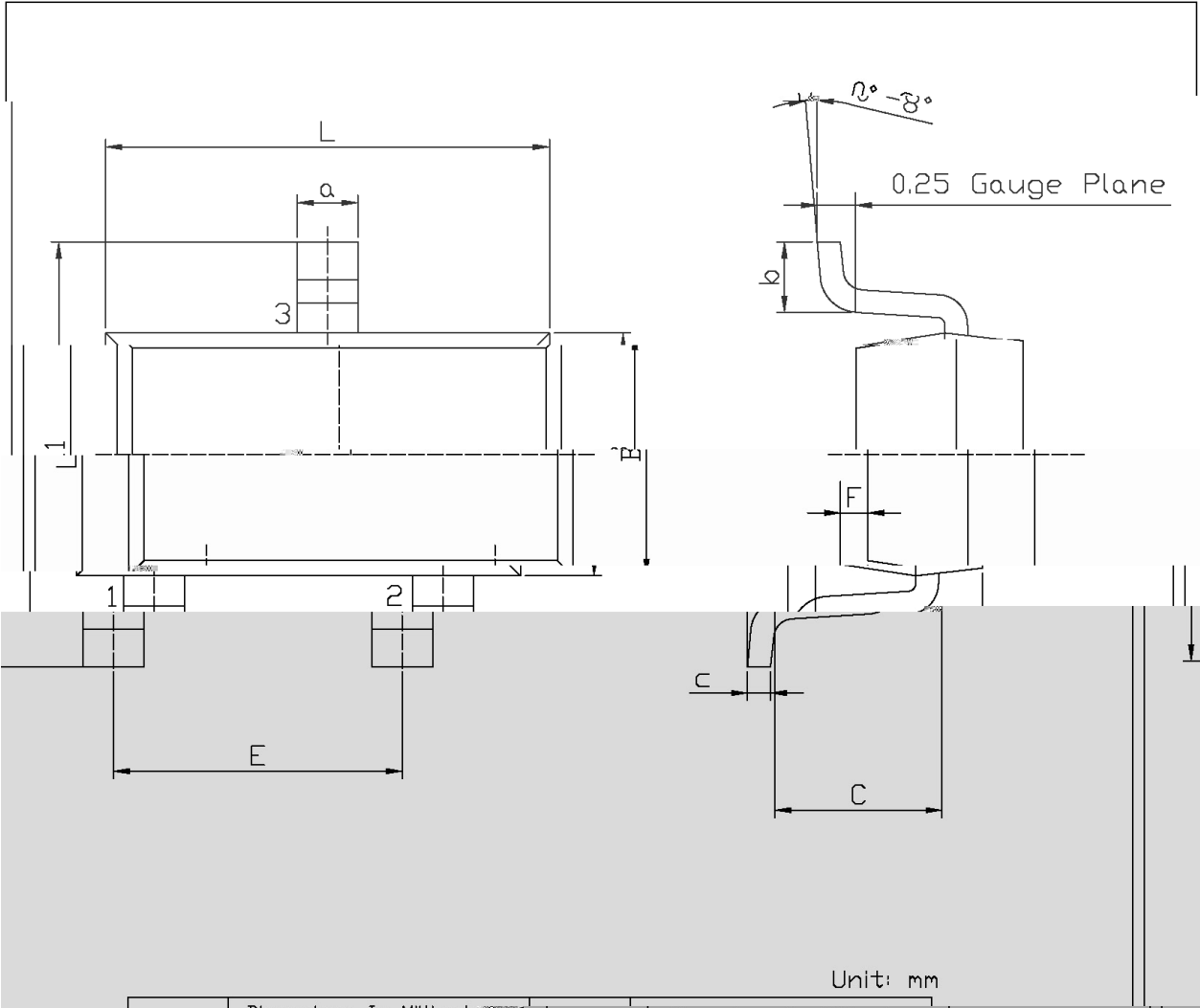
Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: Body-Diode Characteristics

Electrical Characteristic Curve



Ø □ =) ☿ / Package Dimensions

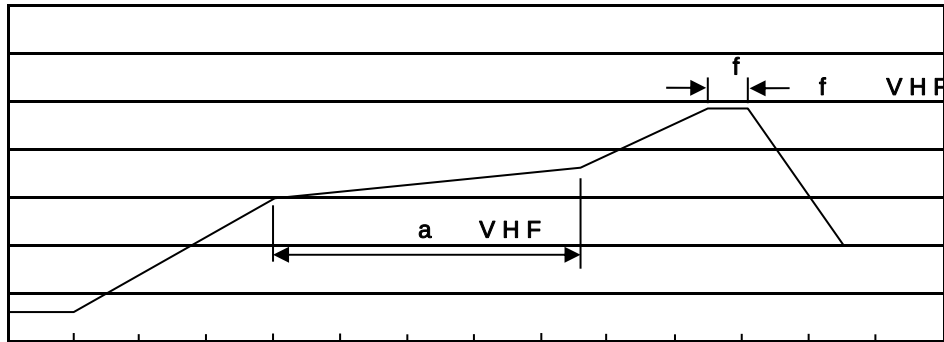


Dimension in Millimeters		Dimension in Millimeters	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100



šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

ačy

10•Ä½“† 150½180 - kž• 60½90sec;

20•Q>“† 245 r5 - kž•4 Ò 5 r0.5sec;

30•D Nò i Ò 0,† 2½10 - /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 /Că p~»] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 -

ž•y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û~E	Units ;>û H					Dimension ;>û p. (unit /mm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT23-3	3,000	10	30,000	4	120,000	7 s ×8	210×205×205	445×435×230

„Đ y f / Notices