SOT23-3 N

- CHANNEL MOSFET in a SOT23-3 Plastic Package.

V_{DS}=100V I_D=5A

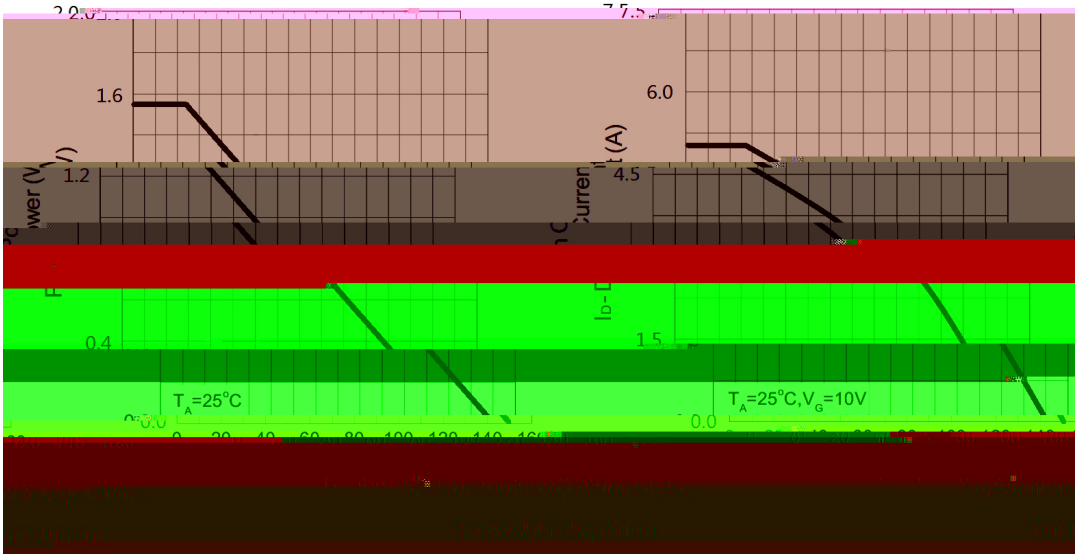
$R_{DS(on)1}$@10V ≤ 175mΩ(Type.120mΩ)

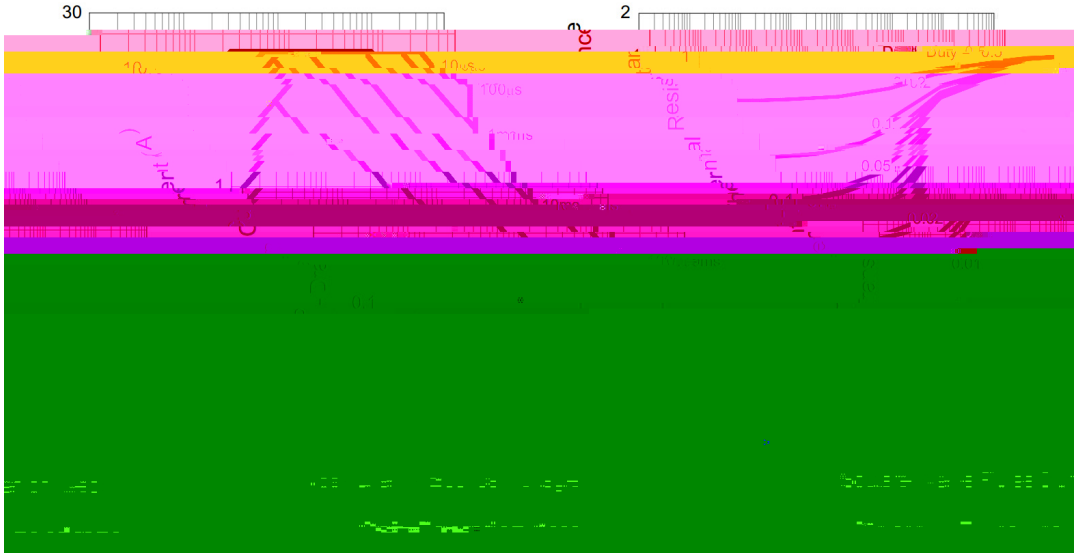
$R_{DS(on)2}$@4.5V ≤ 235mΩ(Type.150mΩ)

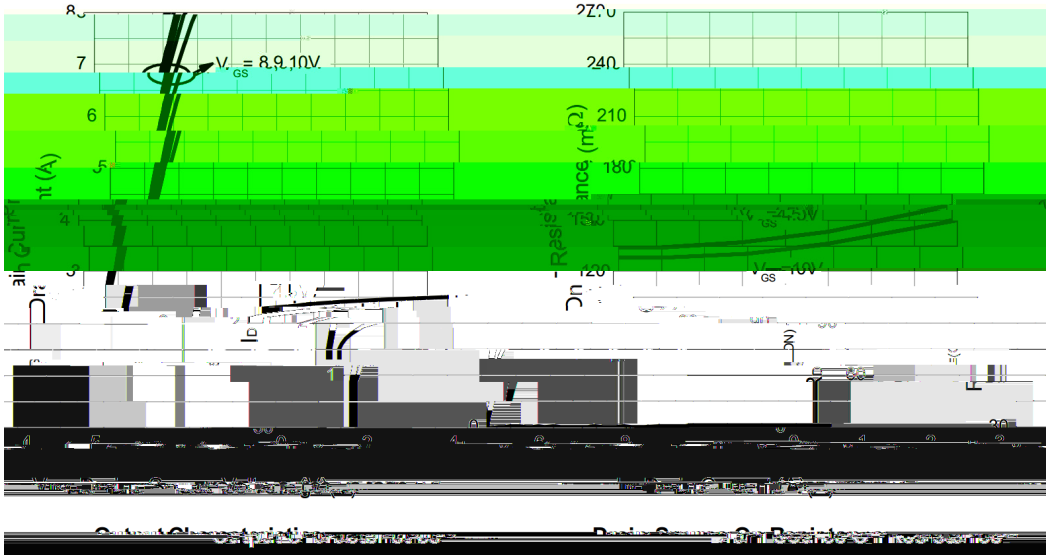
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	100	V
Gate-Source Voltage	V_{GSS}	±20	V
Maximum Drain Current - Continuous	I_D	5.0	A
Drain Current- Pulsed	I_{DM}	15	A
Power Dissipation	P_D	1.55	W
Maximum Junction Temperature	T_J	150	
Storage Temperature Range	T_{STG}	-55 to 150	
Maximum Resistance –Junction to Ambient	R_{JA}	80.7	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_{DS}=250 A	100			V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=100V V_{GS}=0V			1	A
Gate–Body Leakage.	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±10	A
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}= V_{GS} I_{DS}=250 A	1		3	V
Static Drain–Source On–Resistance	$R_{DS(on)(1)}$	V_{GS}=10V I_D=5A		120	175	m
	$R_{DS(on)(2)}$	V_{GS}=4.5V I_D=2A		150	235	m
Drain-Source Diode Forward Voltage	V_{SD}	V_{GS}=0V I_F=1A			1.3	V
Input Capacitance	C_{iss}	V_{DS}				

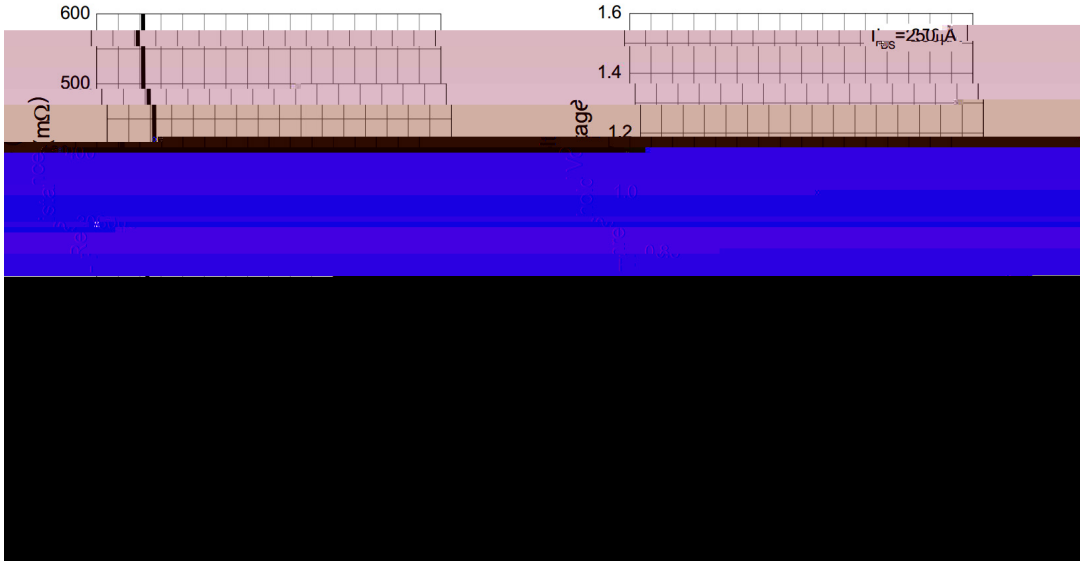
/ Electrical Characteristic Curve

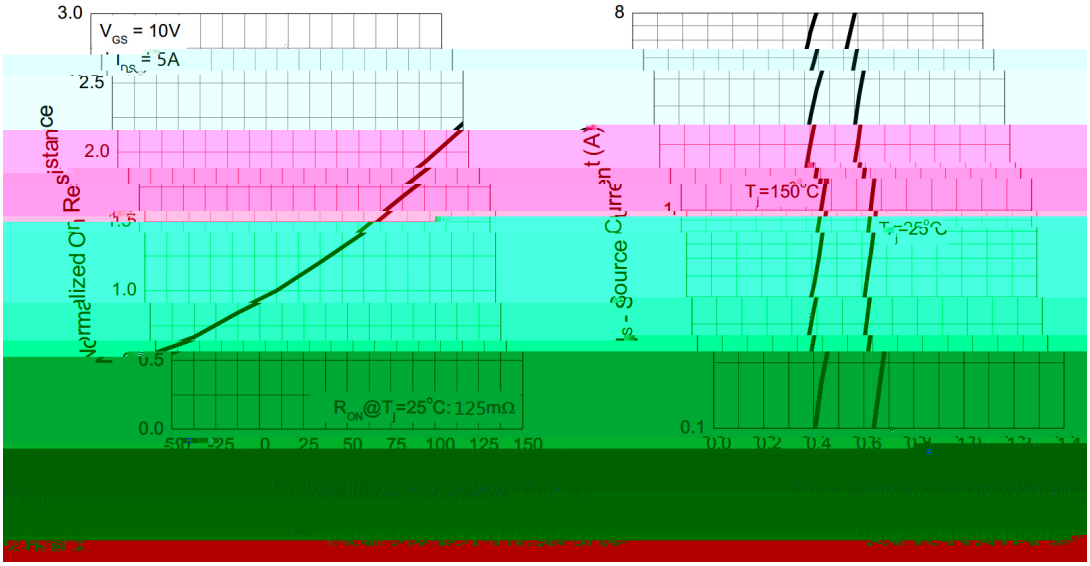


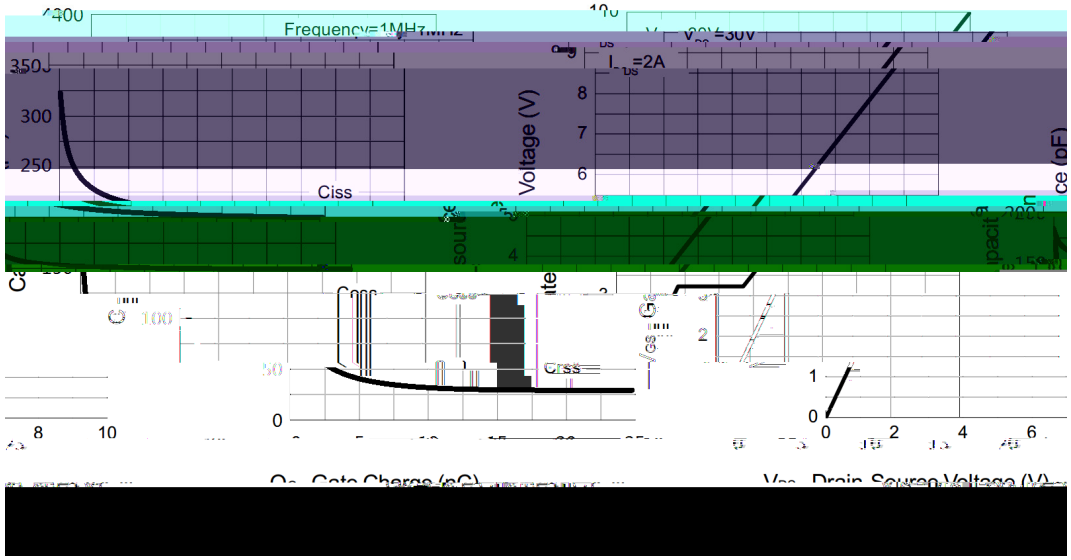




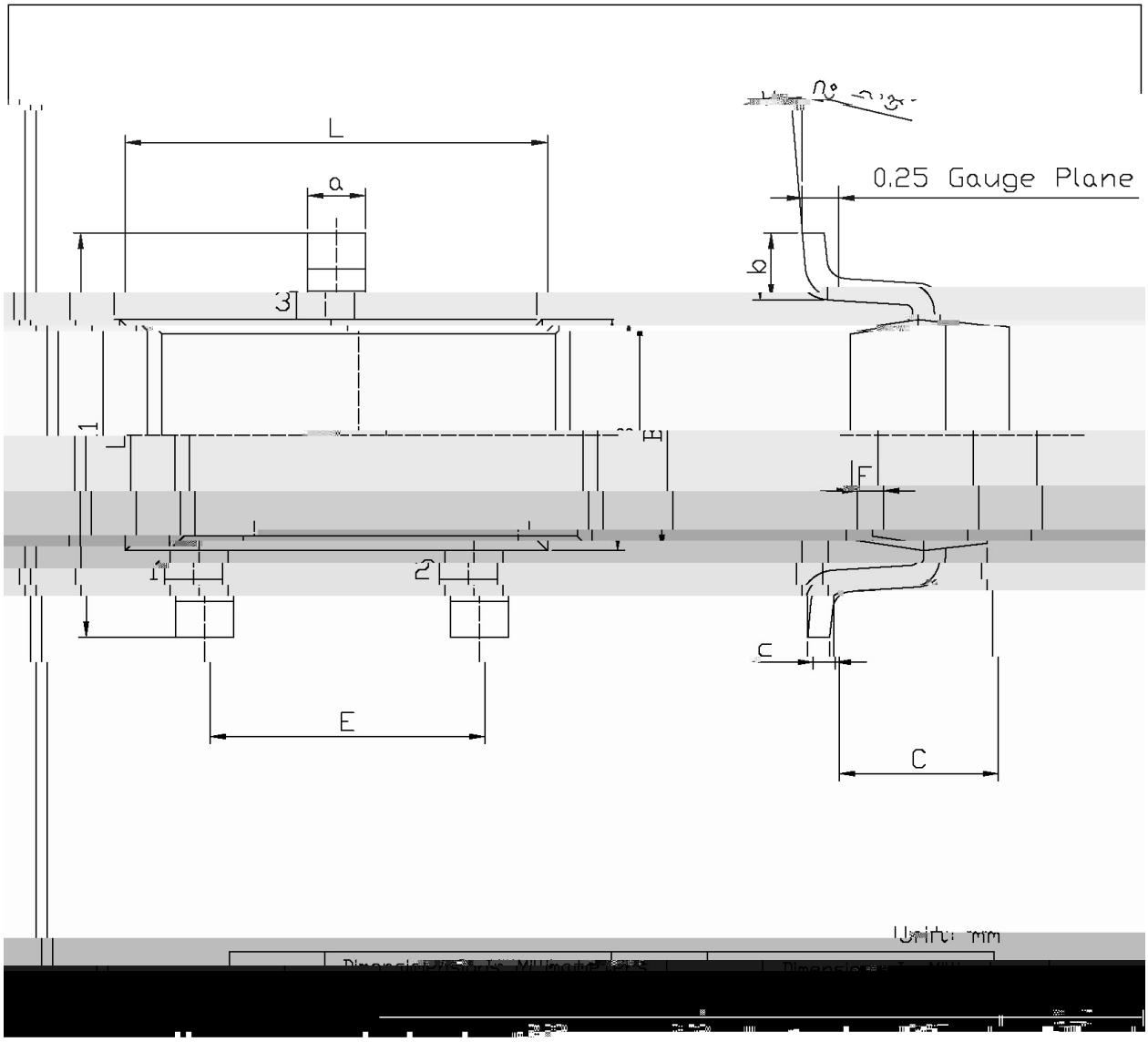
/ Electrical Characteristic Curve



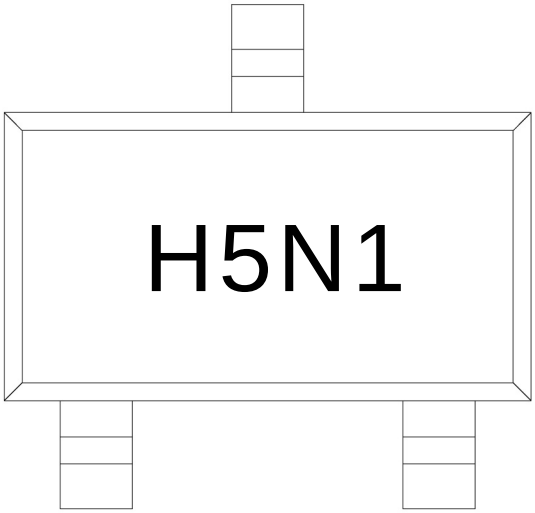




/ Package Dimensions



/ Marking Instructions



H:

5N1

Note:

H	Company Code
5N1:	Product Type Code

( ) /

Note:

1 150 180 60 90sec;
1.Preheating:150~180 , Time:60~90sec.

2 245 5 5 0.5sec;
2.Peak Temp.:245 5 , Duration:5 0.5sec.

3 2 10 /sec.
3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm³)