

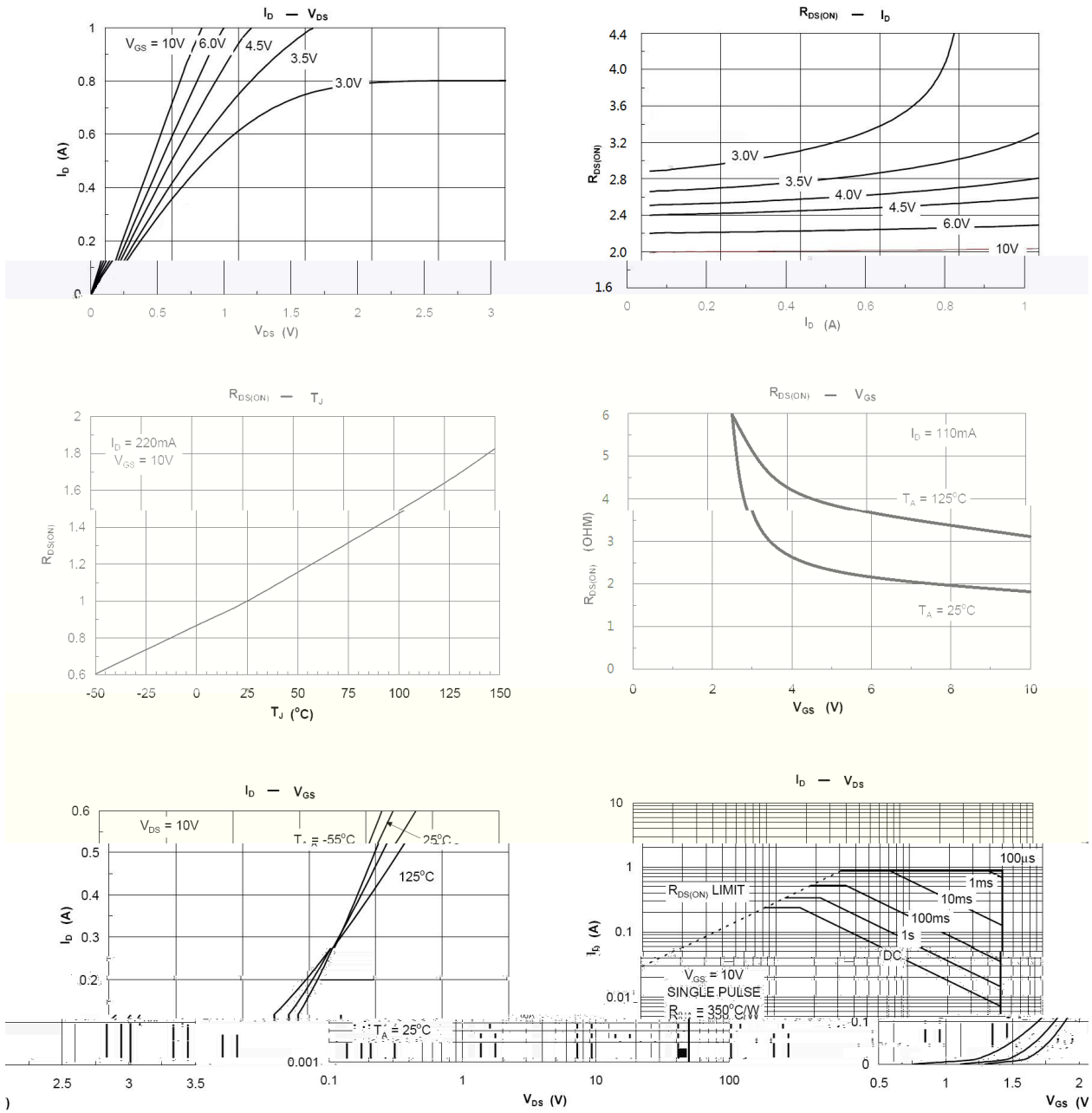
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	50	V
Gate-Source Voltage	V_{GSS}	±20	V
Drain Current – Continuous	I_D	220	mA
Peak Drain Current	I_{DM}	880	mA
Power Dissipation	P_D	360	mW
Thermal Resistance, Junction-to-Ambient	R_{JA}	350	°C/W
Storage Temperature Range	T_{stg}	-55 150	°C

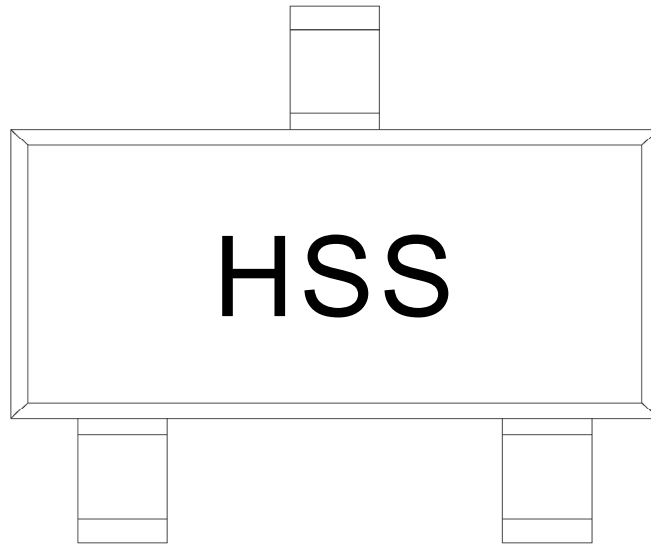
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	V_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	50			V
Zero Gate Voltage Drain Current	$I_{DSS(1)}$	$V_{GS}=0$ $V_{DS}=50V$			0.5	μA
	$I_{DSS(2)}$	$V_{GS}=0$ $V_{DS}=30V$			0.1	μA
Gate–Body Leakage.	I_{GSS}	$V_{DS}=0V$ $V_{GS}=\pm 20$			±10	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=1.0mA$	0.8	1.6	1.8	V
Static Drain–Source On–Resistance	$R_{DS(on)(1)}$	$V_{GS}=10V$ $I_D=220mA$		1.9	3.5	
	$R_{DS(on)(2)}$	$V_{GS}=4.5V$ $I_D=220mA$		2.5	6.0	
Forward Transconductance	g_{FS}	$V_{DS}=10V$ $I_D=220mA$	0.12	0.5		S
Drain–Source Diode Forward Voltage	V_{SD}	$V_{GS}=0V$ $I_S=440mA$		0.8	1.4	V
Input Capacitance	C_{iss}	$V_{DS}=10V$ $V_{GS}=0V$ $f=1.0MHz$			50	pF
Output Capacitance	C_{oss}				25	
Reverse Transfer Capacitance	C_{rss}				8	
Gate Resistance	R_G	$V_{GS}=15mV$ $f=1.0MHz$		9		
Turn–On Delay Time	$t_{d(on)}$	$V_{DD}=30V$ $I_D=290mA$ $V_{GS}=10V$ $R_{GEN}=25$		2.5	5	ns
Turn–On Rise Time	t_r			9	18	ns
Turn–Off Delay Time	$t_{d(off)}$			20	36	ns
Turn–Off Fall Time	t_f			7	14	ns

/ Electrical Characteristic Curve



/ **Marking Instructions**



H

SS

Note:

H: Company Code

SS: Product Type Code

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Note:

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|---|---------|-----------|-----------------------------------------|
| 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 mm ³)		
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices