TO-263-7LA .> / / x N ?ú 3 « | • ’ož

N-CHANNEL MOSFET in a TO-263-7LA Plastic Package.

@ ƒ Parameter		… Z Symbol	ƒ › Rating	% y Unit
Drain-Source Voltage		V_{DSS}	100	<
Drain Current ÄDC Å		I_D(Tc=25)	300	'
		I_D(Tc=100)	300	'
Pulsed Drain Current*,**		I_{DM}	1200	'
Gate-Source Voltage		V_{GS}	±20	<
Continuous-Source Current		I_S(Tc=25)	300	'
Single Pulsed Avalanche Energy L=1.0mH		E_{AS}	2592	S 0
Total Power Dissipation		P_D(Tc=25)	750	=
Junction and Storage Temperature Range		T_J,T_{STG}	-55 to 175	-
Thermal Resistance-Junction to Ambient**	Steady-State	8b 0 '	44	- =
Thermal Resistance-Junction to Case**	Steady-State	8b 0)	0.2	

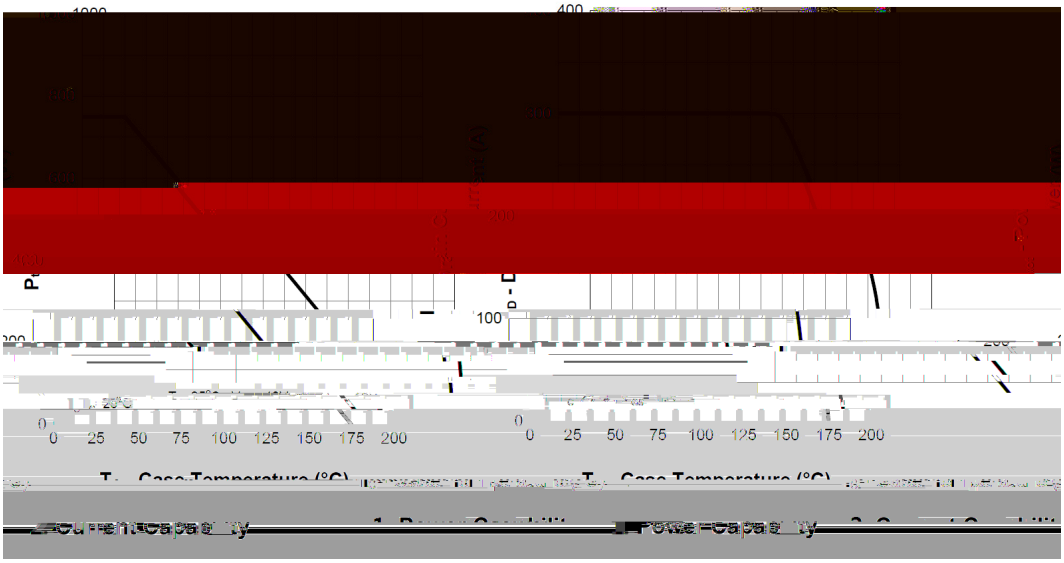
Notes:
* y Pulse width ” 300 s, duty cycle ” 2 %
** y Surface Mounted on minimum footprint pad area
*** y Limited by bonding wire

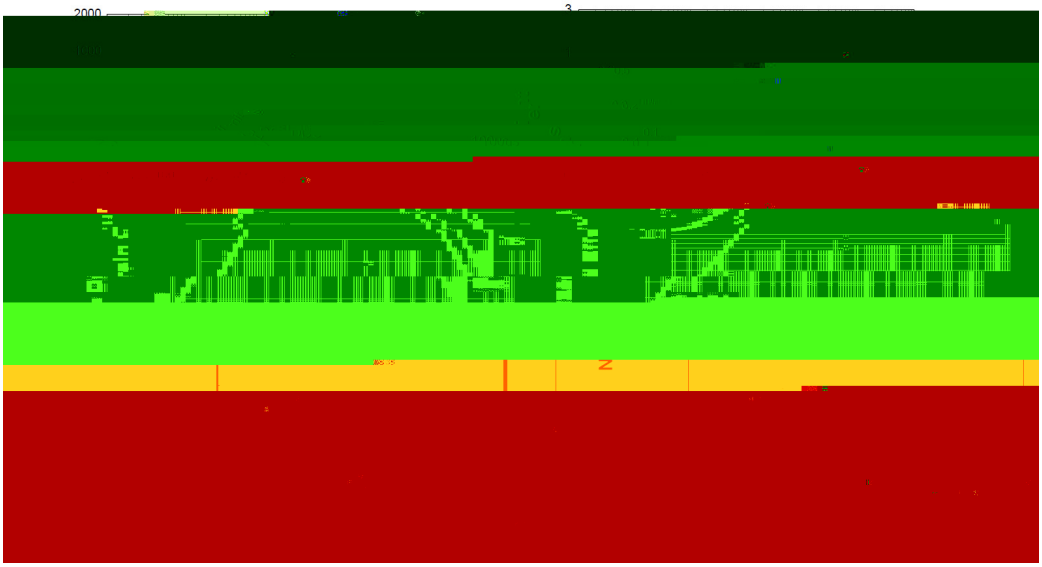
@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit

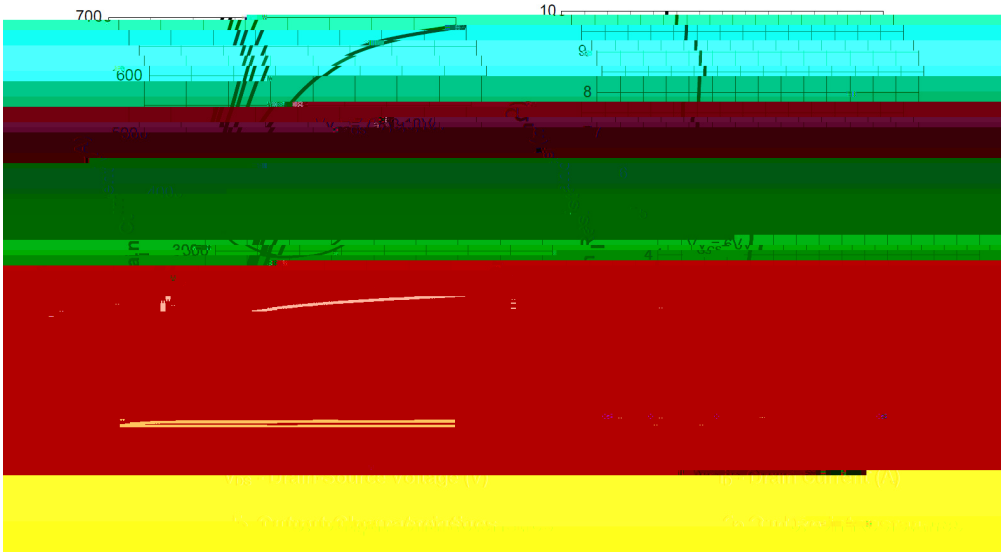
Ô4ì × ? d / Electrical Characteristics(Ta=25 ;)

@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Total Gate Charge	Q_g	V_{GS}=10V V_{DS}=50V I_D=50A		176		nC
Gate Source Charge	Q_{gs}			75		
Gate Drain Charge	Q_{gd}			32		
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=50V R_L=1 R_{GEN}=3.9 I_{DS}=50A		46		nS
Turn-On Rise Time	t_r			94		
Turn-Off Delay Time	$t_{d(off)}$			69		
Turn-Off Fall Time	t_f			70		

Ô ? d • Ž ¢ / Electrical Characteristic Curve

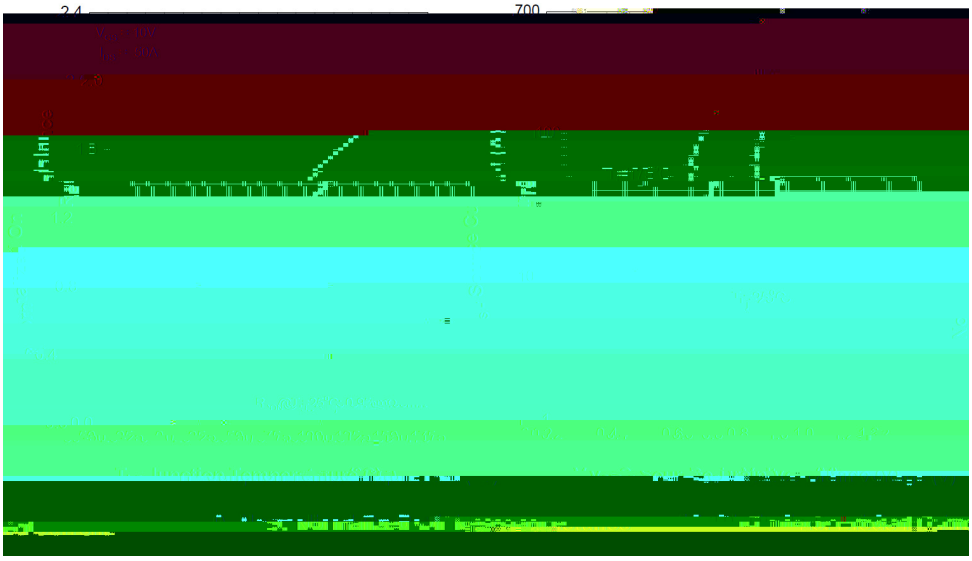


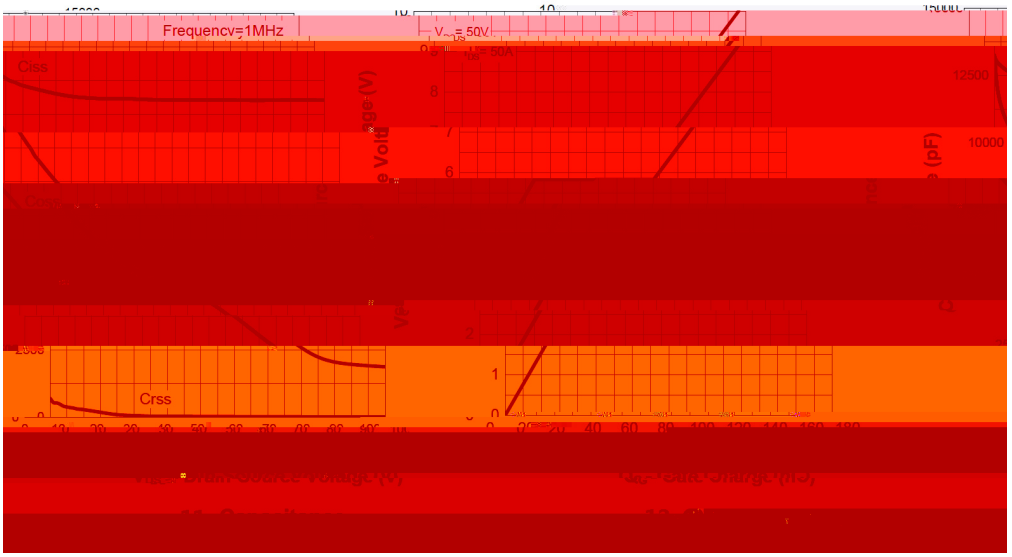




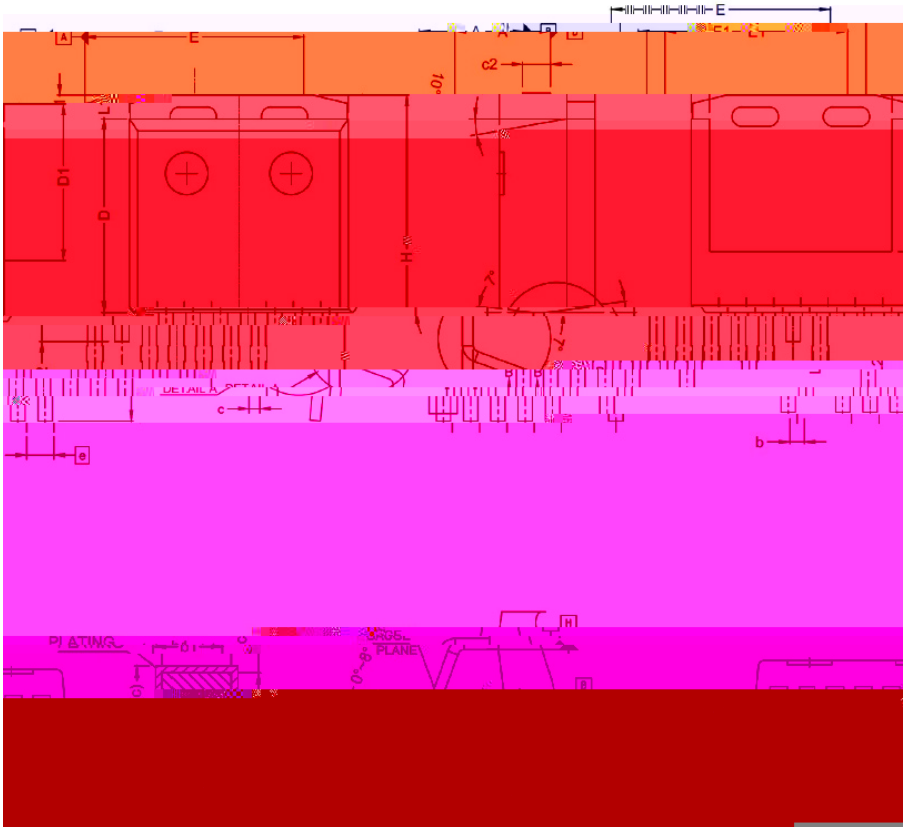
Ô ? d • Ž ¢ / Electrical Characteristic Curve



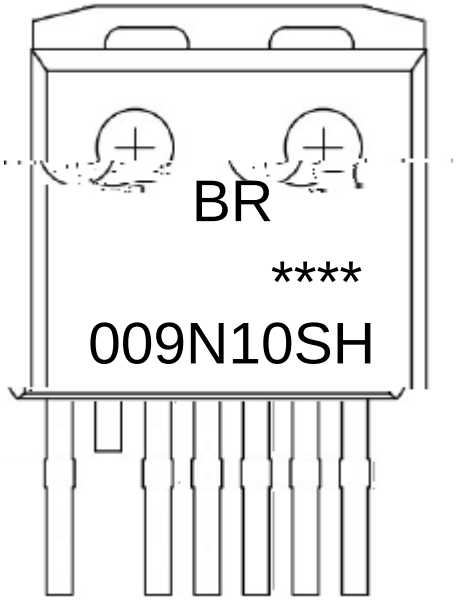




Ø ¤ =) ¢ / Package Dimensions



, M y ƒ / Marking Instructions



ª ¢ y

(8 y ¸ [W A

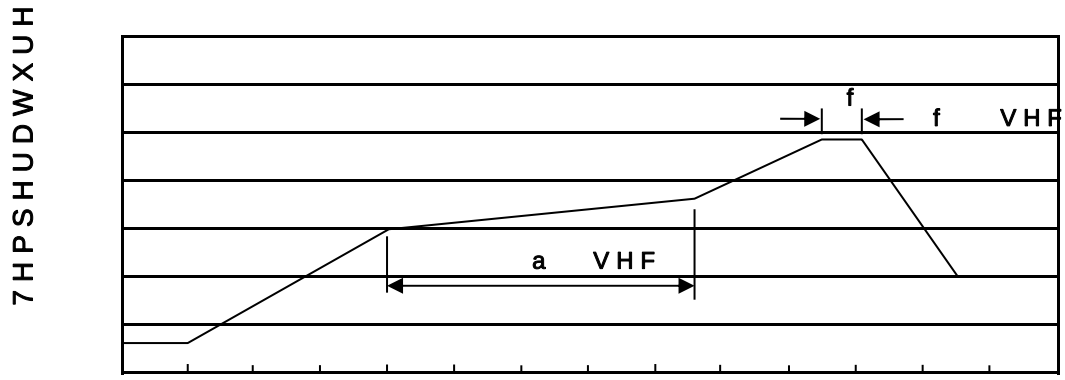
4 9 . y º Z W A

y ÿ D Z W A k š ÿ D Z J

Note:

BR:	Company Code
009N10SH:	Product Type Code
****:	Lot No. Code, code change with Lot No.

š WD t … • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



7 L P H V H F

ª ¢ y

Note:

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

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

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

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

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

ÂD /Cã 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 Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
TO-263-7LA	800	1	800	6	4,800	13 s ×24	360×360×50	380×335×366

„ Ð y ƒ / Notices

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