DFN2×2B-6L P MOS

P-Channel Enhancement Mode Field Effect Transistor in a DFN2×2B-6L Plastic Package.

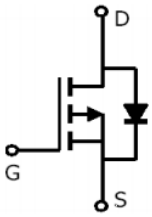
V_{DS}(V)=-30V I_D=-7.8A

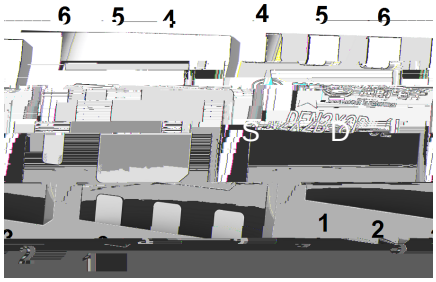
$R_{DS(ON)}$<22mΩ (V_{GS}=-10V)

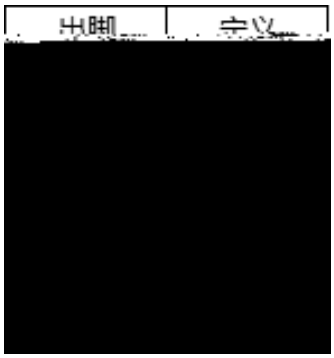
$R_{DS(ON)}$<35mΩ (V_{GS}=-4.5V)

HF Product.

Power Management in Notebook Computer,Portable Equipment and Battery Powered Systems.





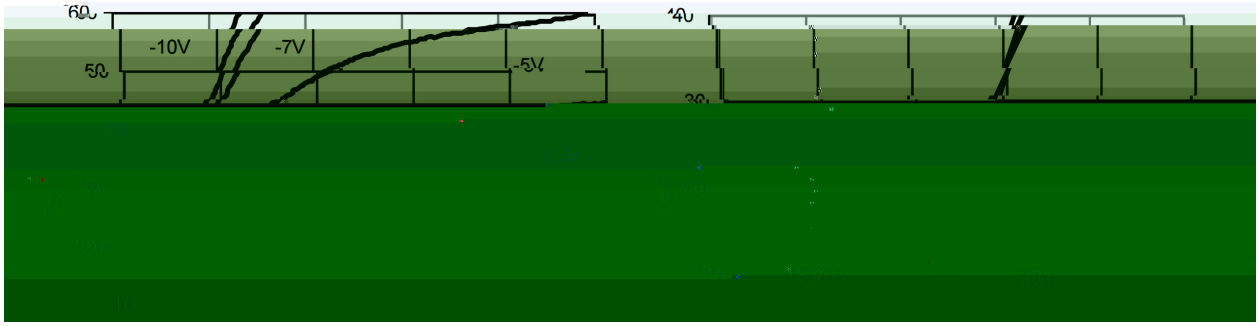


See Marking Instructions.

Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DS}	-30	V
Drain Current - Continuous		I_D	-7.8	A
Drain Current – Pulsed		I_{DM}	-29.4	A
Gate-Source Voltage		V_{GS}	± 20	V
Power Dissipation		P_D	2	W
Single Pulse Avalanche Energy(L=0.5mH)		E_{AS}	152	mJ
Avalanche Current(L=0.5mH)		I_{AS}	-19.5	A
Junction and Storage Temperature Range		T_j, T_{stg}	-55 to 150	
Thermal resistance, junction - ambient	t ≤ 10s	$R_{\theta JA}$	62.5	/ W
	Steady-State		90	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=-10V V_{DS}=-15V R_L=0.75Ω R_{GEN}=3Ω		11		ns
Turn-On Rise Time	t_r			5.6		
Turn-Off Delay Time	$t_{d(off)}$			28		
Turn-Off Fall Time	t_f			11		

w ST /Im5 Do6BT/TT4 58 0 0 10.5 57.66 31.6w ST /0( )TjETq468.66 0 7 42.72177.194 593.5348.4/Im5 Do7BT/TT



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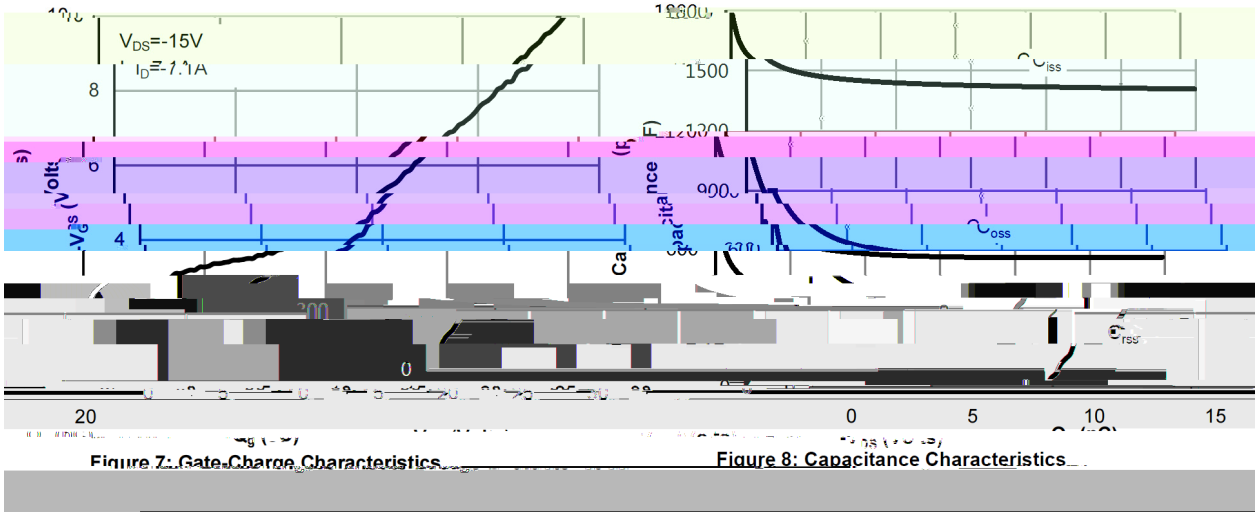
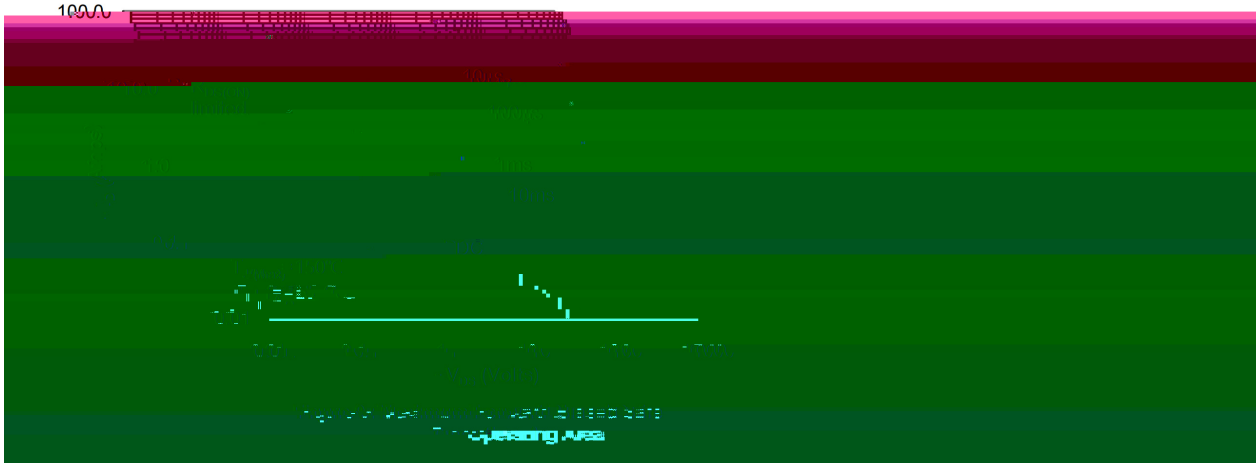
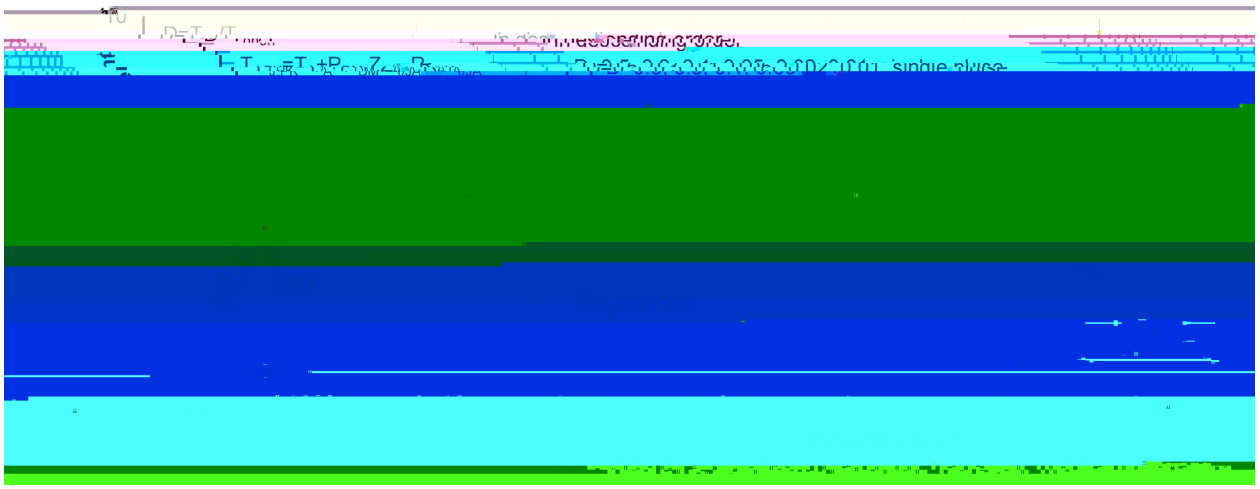


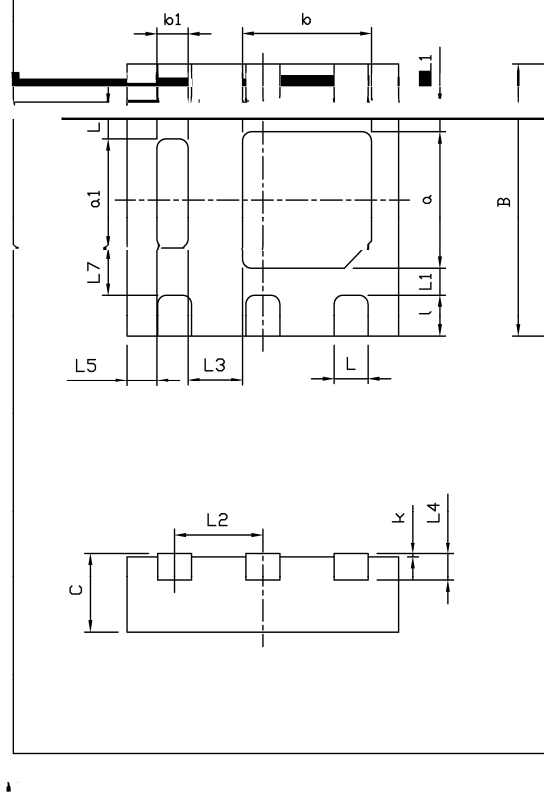
Figure 7: Gate-Charge Characteristics

Figure 8: Capacitance Characteristics





DFN2×2B-6L-0.5 Unit:mm



Dimensions In Millimeters			
Symbol	MIN	TYP	MAX
A	1.95	2.00	2.05
B	1.95	2.00	2.05
C	0.45	0.50	0.55
L	0.25	0.30	0.35
L1	0.10	0.20	0.30
L2	–	0.65	–
L3	0.30	0.40	0.50
L4	–	0.152	–
L5	0.12	0.22	0.32
L6	0.15	0.25	0.35
L7	0.23	0.33	0.43
a	0.90	1.00	1.10
a1	0.72	0.82	0.92
b	0.85	0.95	1.05
b1	0.13	0.23	0.33
l	0.25	0.30	0.35
k	0.00	–	0.05

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BR

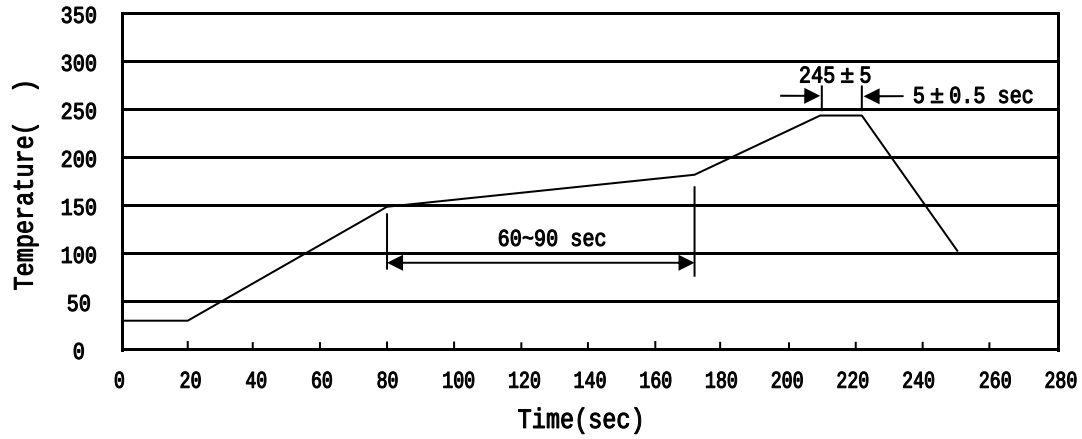
200P03

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Note:

BR:	Company Code
200P03:	Product Type Code
****:	Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



1	150	180	60	90sec;	
2	245±5			5±0.5sec;	
3		2	10	/sec.	

Note:

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

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

3. Cooling Speed: 2~10 /sec.

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

/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
DFN2×2B-6L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230