* , 4 2 .> / / x 4 ?ú 3 3 5 9 « | • ’ož
N-Channel Enhancement Mode Field Effect Transistor in a DFN1006-3L Plastic Package.

² } O ò ´ ‡ G v y ® z Ó 4 vož ² ‘ 1 < k —)í D }ož
Sensitive gate trigger current and Low Holding current.ESD protected up to 2KV,HF Product.

•%² " • ¼ y , y O òož
/ T Z K T J K J L U X [Y K O T M K T K X G R V [X V U Y K Y]G V Z V R O T G M Z O U J T V N G Y K I U T Z

Pin1:G Pin2:S Pin3:D

@ *f* Parameter		… Z Symbol	*f* › Rating	% y Unit
Drain-Source Voltage		V_{DSS}	20	V
Gate-Source Voltage		V_{GSS}	r8	V
Drain Current – Continuous		I_D	0.75	A
Pulsed Drain Current		I_{DM}	1.8	A
Power Dissipation		P_D	0.9	W
Storage Temperature Range		T_{stg}	-55 to 150	-
Thermal resistance, junction - ambient	t 0 10s	R JA	100	- /W
	Steady-State		140	

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

@ *f* 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}=4.5V, V_{DS}=10V, I_D=0.4A		0.85		nC
Gate Source Charge	Q_{gs}			0.1		
Gate Drain Charge	Q_{gd}			0.25		
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=4.5V V_{DS}=10V R_L=25 R_{GEN}=3		2		ns
Turn-On Rise Time	t_r			4		ns
Turn-Off Delay Time	$t_{d(off)}$			18		ns
Turn-Off Fall Time	t_f			8		ns

Ô ? d • Ž ¢

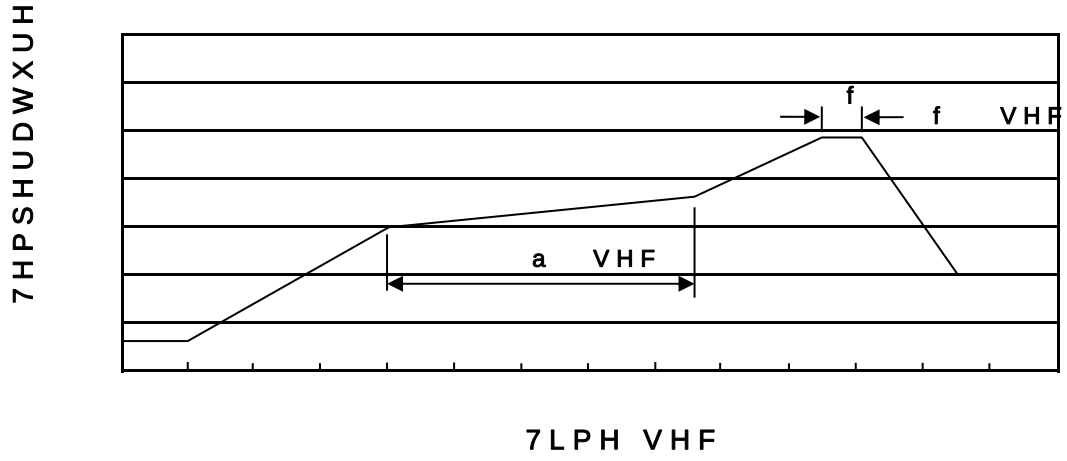
Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø ¤ =) ¢ / Package Dimensions

, M y ƒ / Marking Instructions

€ô º(Z WÁz 7•† “ ª ¢
ª ¢ y

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



ª ¢ y

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

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

3o•D N ò i Ò 0 , † 2 ½10 - /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 /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
DFN1006-3L	10,000	10	100,000	6	600,000	7 s ×8	180×120×180	390×385×205

„ Ð y ƒ / Notices