Fea e :

8.0A, 650V, $R_{DS(\ )(T\ )}$=1.1 @V_{GS}=10V

L Ga C a

L C

100% A a a I T

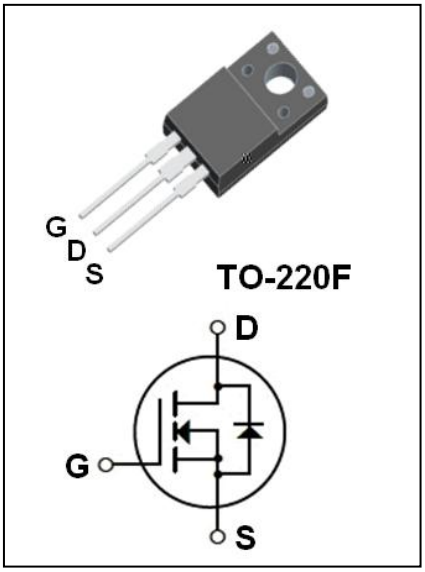
Fa S

I /I Cal a

A lica i :

H F S M P S

A P I Fa C



Ab l e Ma im m Ra i g (T =25°C)

S	Pa a	Va	U
V_{DSS}	D a -S V a	650	V
I_D	D a C - C (T =25°C) - C (T =100°C)	8.0*	A
		5.1*	A
I_{DM}	D a C -P (N 1)	32*	A
V_{GSS}	Ga -S V a	±30	V
E_{AS}	S P A a a I E (N 2)	600	J
I_{AR}	A a a I C (N 1)	8.0	A
E_{AR}	R A a I E (N 1)	15.0	J
/	P a D R I (N 3)	4.5	V/
P_D	P D a (T_C =25°C) -D a a 25	51	W
		0.41	W/°C
T	O a J T a	150	°C
T	S a T a Ra	-55 +150	°C

* D a C L Ma J T a .

The mal Cha ac e i ic

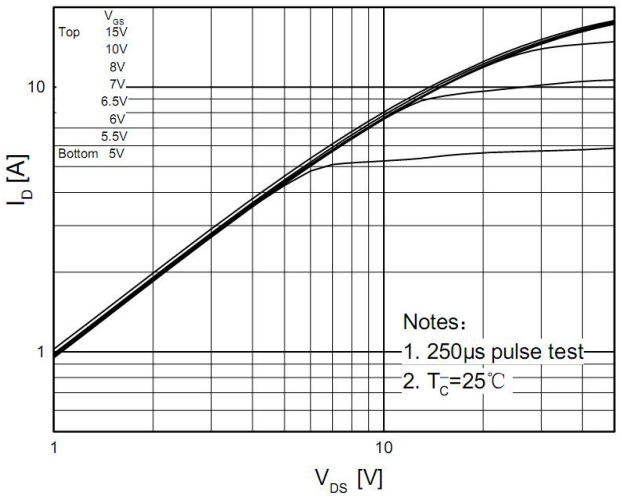
S	Pa a	Ma	U
R_{JC}	T a R a ,J Ca	2.44	°C /W
R_{JA}	T a R a ,J A	62.5	°C /W

Elec ical Cha ac e i ic (T =25°C)

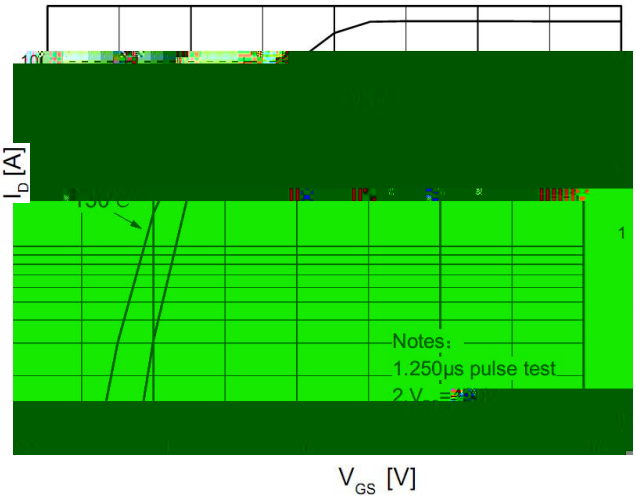
S	Pa a	T C	M	T	Ma	U
Off Cha ac e i ic						
BV_{DSS}	D a - B a V a	V_{GS}=0V ,I_D=250 A	650	--	--	V
$\triangle BV_{DSS}$ /$\triangle T_J$	B a V a T a C	I_D=250 A (R 25°C)	--	0.7	--	V/°C
I_{DSS}	Z Ga V a D a C	V_{DS}=650V,V_{GS}=0V	--	--	1	A
		V_{DS}=520V,T =125°C	--	--	10	A
I_{GSSF}	Ga -B L a a C ,F a	V_{GS}=+30V, V_{DS}=0V	--	--	100	A
I_{GSSR}	Ga -B L a a C ,R	IV_{GS}=-30V, V_{DS}=0V	--	--	-100	A
O Cha ac e i ic						
$V_{GS(\ )}$	Ga T V a	V_{DS}= V_{GS}, I_D=250 A	2.0	--	4.0	V
$R_{DS(\ )}$	S a D a -S O -R a	V_{GS}=10 V, I_D=4.0A	--	1.1	1.3	
FS	F a T a a	V_{DS}=40 V, I_D=4.0A (N 4)	--	7	--	S
D amic Cha ac e i ic						
C	I Ca a a	V_{DS}=25V,V_{GS}=0V, =1.0MH	--	1400	--	F
C	O Ca a a		--	175	--	F
C	R Tla Ca a a		--	16	--	F
S i chi g Cha ac e i ic						
( )	T -O D a T	V_{DD} = 325 V, I_D = 8.0 A, R_G = 25 (N 4,5)	--	13.5	--	
	T -O R T		--	105	--	
( )	T -O D a T		--	128	--	
	T -O Fa T		--	49	--	
Q	T a Ga C a	V_{DS} = 520 V, I_D =8.0 A, V_{GS} = 10 V (N 4,5)	--	31	--	C
Q	Ga -S C a		--	6.5	--	C
Q	Ga -D a C a		--	14.7	--	C
D ai -S ce Di de Cha ac e i ic a d Ma im m Ra i g						
I_S	Ma C D a -S D F a C		--	--	8.0	A
I_{SM}	Ma P D a -S D F a C		--	--	32	A
V_{SD}	D a -S D F a V a	V_{GS} =0V,I_S=8.0A	--	--	1.4	V
	R R T I	V_{GS} =0V, I_S=8.0A, I_F / =100A/ (N 4)	--	325	--	
Q	R R C la		--	2.7	--	C

N :
1、R Ra I :P W L Ma J T a .
2、L = 18.5 H, I_{AS} =8.0A, V_{DD} = 50V, R_G = 25 , S a T_J = 25°C.
3、I_{SD} 8.0A, / 200A/ , V_{DD} BV_{DSS}, S a T_J = 25°C.
4、P T : P W 300 , D C 2%.
5、E a I O a T a .

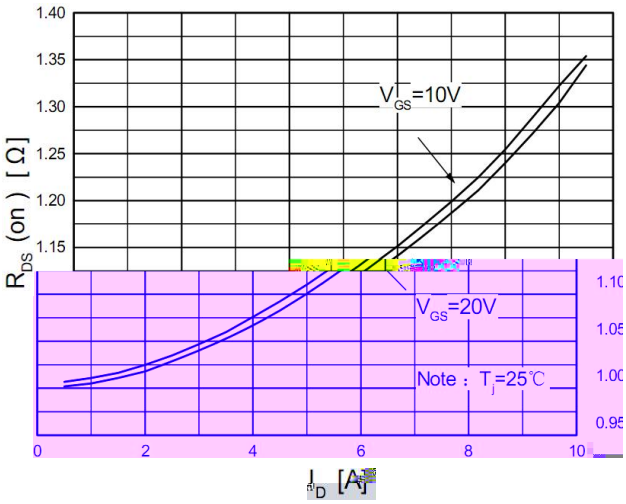
O -Regi Cha ac e i ic



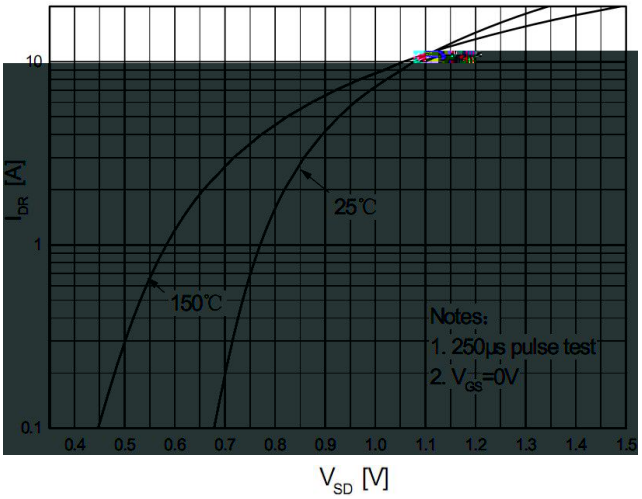
T a fe Cha ac e i ic



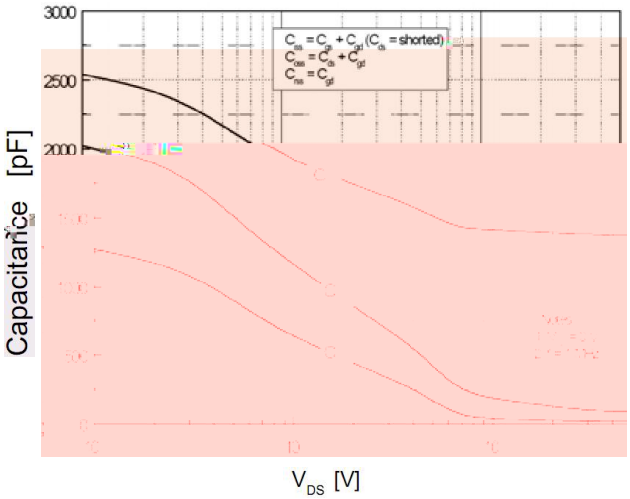
O -Re i a ce Va ia i . D ai C e a d Ga e V l age



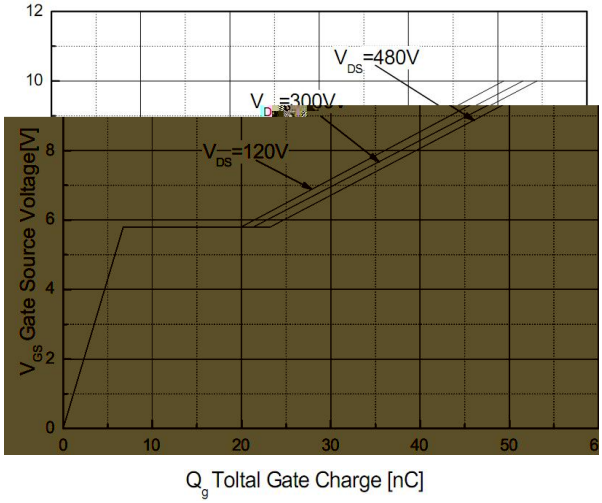
B d Di de F a d V l age Va ia i . S ce C e a d Tem e a e



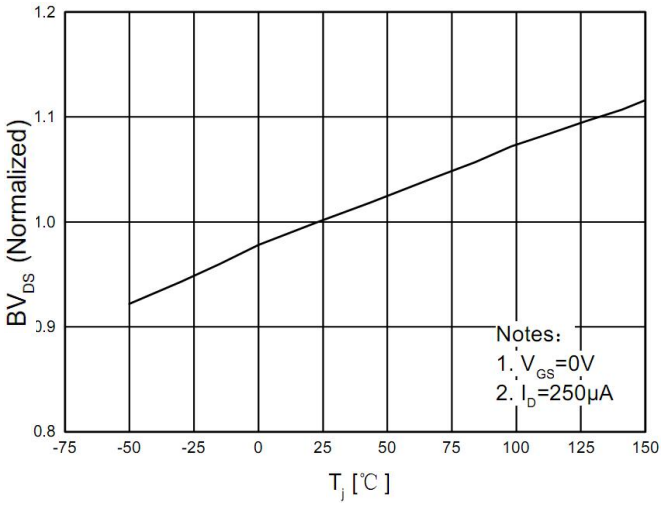
Ca aci a ce Cha ac e i ic



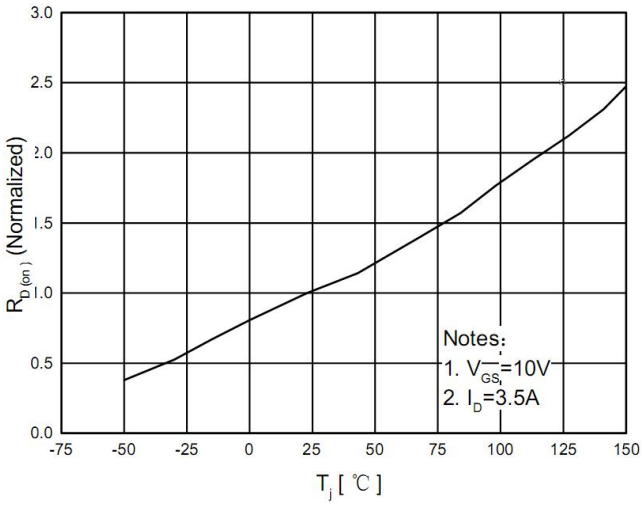
Ga e Cha ge Cha ac e i ic



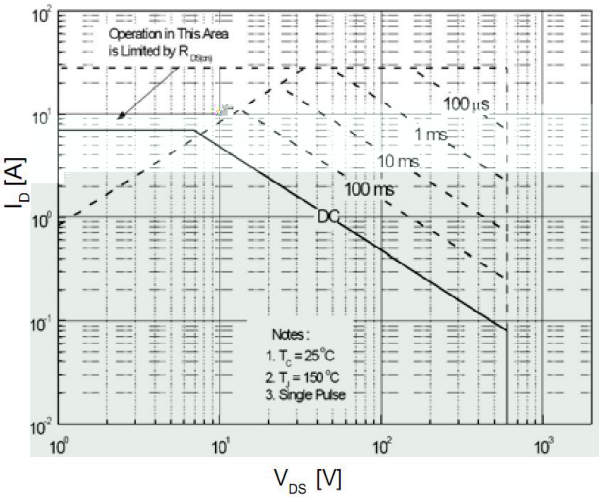
B eakd V l age Va ia i . Tem e a e



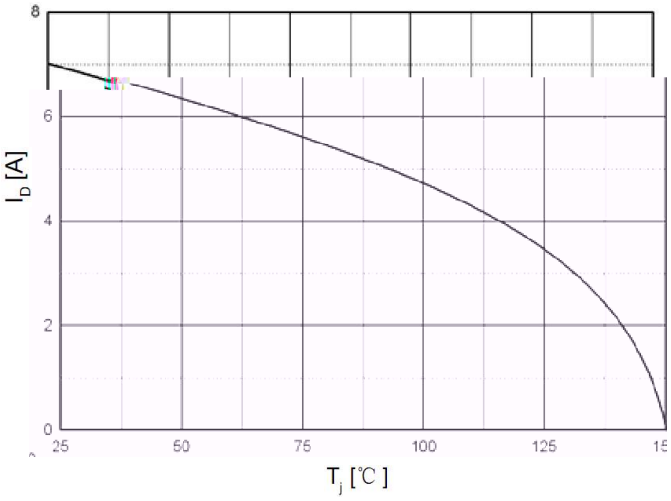
O -Re i a ce Va ia i . Tem e a e



Ma im m Safe O e a i g A ea



Ma im m D ai C e V . Ca e Tem e a e



TO-220F Package Dime i

UNIT：

SYMBOL			a	SYMBOL			a
A	9.80		10.60	D		2.54	
A1		7.00		D1	1.15		1.55
A2	2.90		3.40	D2	0.60		1.00
A3	9.10		9.90	D3	0.20		0.50
B1	15.40		16.40	E	2.24		2.84
B2	4.35		4.95	E1		0.70	
B3	6.00		7.40	E2		1.0 45	
C	3.00		3.70	E3	0.35		0.65
C1	15.00		17.00	E4	2.30		3.30
C2	8.80		10.80			30