Voltage

Features

PJF4NA65A

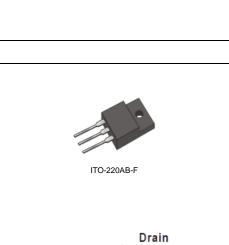
650V N-Channel MOSFET

• R_{DS(ON)}, V_{GS}@10V,I_D@2A<2.7Ω

• Low reverse transfer capacitance

650 V

Current



• Lead free in compliance with EU RoHS 2011/65/EU directive. • Green molding compound as per IEC61249 Std. (Halogen Free)

Mechanical Data

• High switching speed

• Low Gate Charge

Improved dv/dt capability

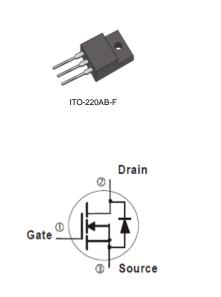
- Case :ITO-220AB-F Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.068 ounces, 2 grams

Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

4 A

PARAMETER		SYMBOL	ITO-220AB-F	UNITS
Drain-Source Voltage		V _{DS}	650	V
Gate-Source Voltage		V_{GS}	<u>+</u> 30	V
Continuous Drain Current		I _D	4	А
Pulsed Drain Current		I _{DM}	16	А
Single Pulse Avalanche Energy (Note 1)		E _{AS}	202	mJ
Power Dissipation	T _C =25°C	P _D	33	W
	Derate above 25°C		0.26	W/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150	°C
Typical Thermal resistance				
- Junction to Case		$R_{ extsf{ heta}JC}$	3.79	°C/W
- Junction to Ambient		$R_{ extsf{ heta}JA}$	120	

• Limited only By Maximum Junction Temperature





Electrical Characteristics (T_A=25[°]C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static	[Γ	1	Γ	1	1
Drain-Source Breakdown Voltage	BV_{DSS}	V _{GS} =0V,I _D =250uA	650	-	-	V
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=250$ uA	2	3	4	V
Drain-Source On-State Resistance	$R_{DS(on)}$	V _{GS} =10V,I _D =2A	-	2.5	2.7	Ω
Zero Gate Voltage Drain Current	I _{DSS}	V_{DS} =650V, V_{GS} =0V	-	-	1.0	uA
Gate-Source Leakage Current	I _{GSS}	V _{GS} = <u>+</u> 30V,V _{DS} =0V	-	-	<u>+</u> 100	nA
Diode Forward Voltage	V_{SD}	I _S =4A,V _{GS} =0V	-	0.76	1.4	V
Dynamic (Note 4)						
Total Gate Charge	Qg		-	18	-	
Gate-Source Charge	Q_gs	Q_{gs} $V_{DS}=520V, I_D=4A,$		3.3	-	nC
Gate-Drain Charge	Q _{gd}	V _{GS} =10V ^(Note 2,3)	-	8.3	-	
Input Capacitance	Ciss	SS		555	-	
Output Capacitance	Coss	$V_{DS}=25V, V_{GS}=0V,$	-	55.4	-	pF
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	2.41	-	
Turn-On Delay Time	Turn-On Delay Time td _(on)		-	11	-	
Turn-On Rise Time	tr	$V_{DD}=325V, I_{D}=4A,$ $R_{G}=25\Omega^{(Note 2,3)}$	-	25	-	ns
Turn-Off Delay Time	td _(off)		-	52	-	
Turn-Off Fall Time	t _f		-	29	-	
Drain-Source Diode						
Maximum Continuous Drain-Source			-	-	4	A
Diode Forward Current	ا _s					
Maximum Pulsed Drain-Source					40	٨
Diode Forward Current	I _{SM}		-	-	16	A
Reverse Recovery Time	trr	V _{GS} =0V, I _S =4A	-	266	-	ns
Reverse Recovery Charge	Qrr	dI _F / dt=100A/us ^(Note 2)	-	2.24	-	uC

NOTES :

1. L=30mH, I_{AS}=3.6A, V_{DD}=50V, R_G=250hm, Starting T_J=25 $^{\circ}$ C

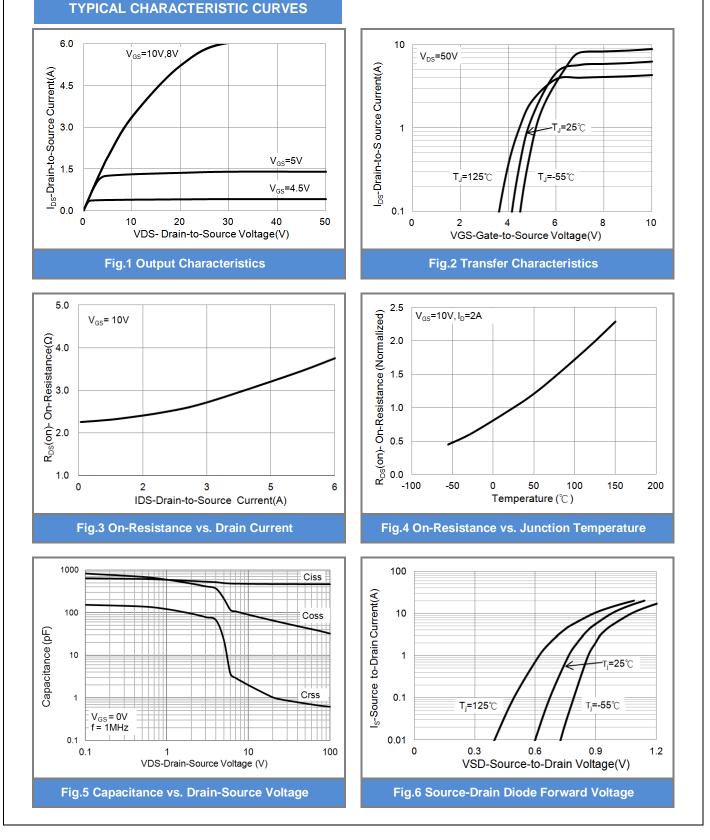
2. Pulse width</br>

3. Essentially independent of operating temperature typical characteristics.

4. Guaranteed by design, not subject to production testing

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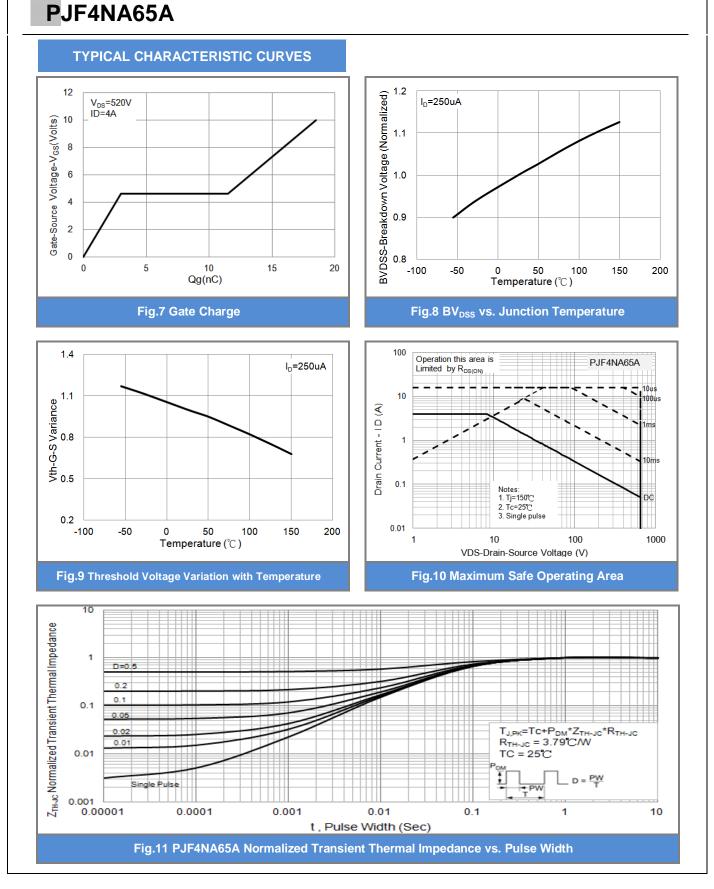


PJF4NA65A

PANJ CONDUCTOR



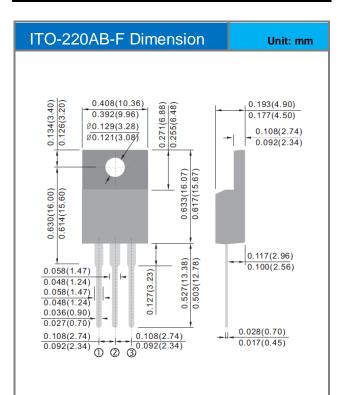
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Packaging Information







PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version	
PJF4NA65A _T0_00001	ITO-220AB-F	50pcs / Tube	F4NA65A	Halogen free	



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