

Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	TO-251AA	TO-220AB	ITO-220AB-F	TO-252AA	UNITS
Drain-Source Voltage		V _{DS}	650				
Gate-Source Voltage		V _{GS}	<u>+</u> 30				V
Continuous Drain Current		I _D	7.5				А
Pulsed Drain Current		I _{DM}	30				А
Single Pulse Avalanche Energy (Note 1)		E _{AS}	245				mJ
Power Dissipation	T _C =25°C	P _D	140	145	46	140	W
	Derate above 25°C		1.12	1.16	0.37	1.12	W/°C
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55~150				°C
Typical Thermal Resistance							
- Junction to Case		$R_{ extsf{ heta}JC}$	0.89	0.88	2.72	0.89	°C/W
- Junction to Ambient		$R_{ extsf{ heta}JA}$	110	62.5	120	110	

• Limited only By Maximum Junction Temperature



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Static	-			_	_	
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 =250uA	2	2.89	4	V
Drain-Source On-State Resistance	R _{DS(on)}	V _{GS} =10V,I _D =3.75A	-	0.91	1.2	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 =7.5A,V _{GS} =0V	-	0.9	1.4	V
Dynamic ^(Note 4)						
Total Gate Charge	Qg		-	29	-	nC
Gate-Source Charge	Q _{gs}	V_{DS} =520V, I_{D} =7.5A, V_{GS} =10V ^(Note 2,3)	-	5.5	-	
Gate-Drain Charge	Q_{gd}	V _{GS} =10V	-	9.7	-	
Input Capacitance	Ciss		-	1245	-	
Output Capacitance	Coss	Coss V _{DS} =25V, V _{GS} =0V,		105	-	pF
Reverse Transfer Capacitance	Crss	f=1.0MHZ	-	50	-	
Turn-On Delay Time			-	15	-	
Turn-On Rise Time	t _r	V_{DD} =325V, I _D =7.5A, R _G =25Ω ^(Note 2,3)	-	27	-	
Turn-Off Delay Time	td _(off)		-	92	-	ns
Turn-Off Fall Time	t _f		-	36	-	
Drain-Source Diode						
Maximum Continuous Drain-Source			-	-	7.5	А
Diode Forward Current	I _S					
Maximum Pulsed Drain-Source			-	-	30	А
Diode Forward Current	I _{SM}					
Reverse Recovery Time	trr	V _{GS} =0V, I _S =7.5A	-	360	-	ns
Reverse Recovery Charge	Qrr	dI _F / dt=100A/us ^(Note 2)	-	3.31	-	uC

NOTES :

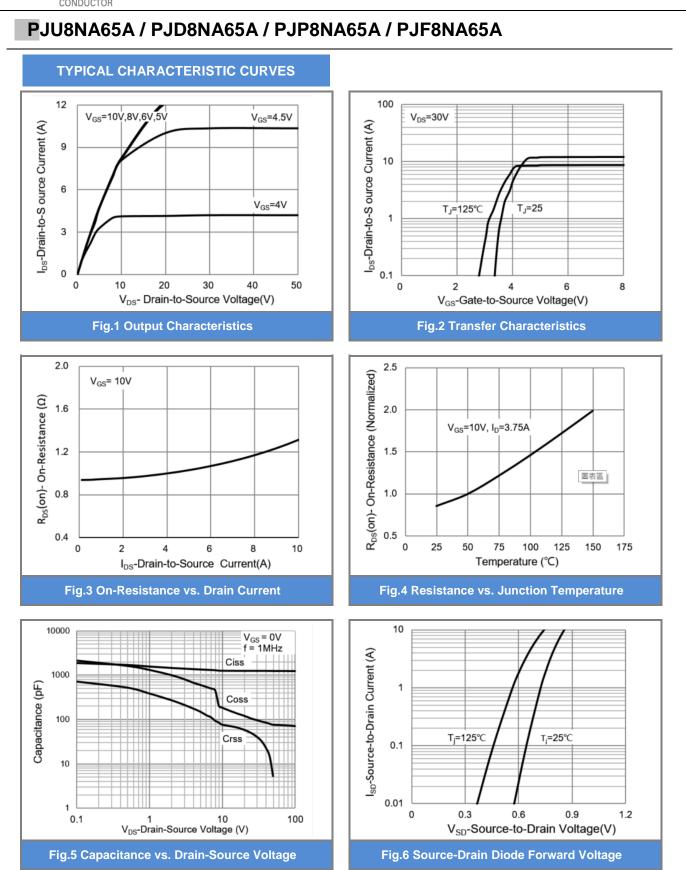
1. L=10mH, I_{AS} =7A, V_{DD} =50V, R_G =25 ohm, Starting T_J =25°C

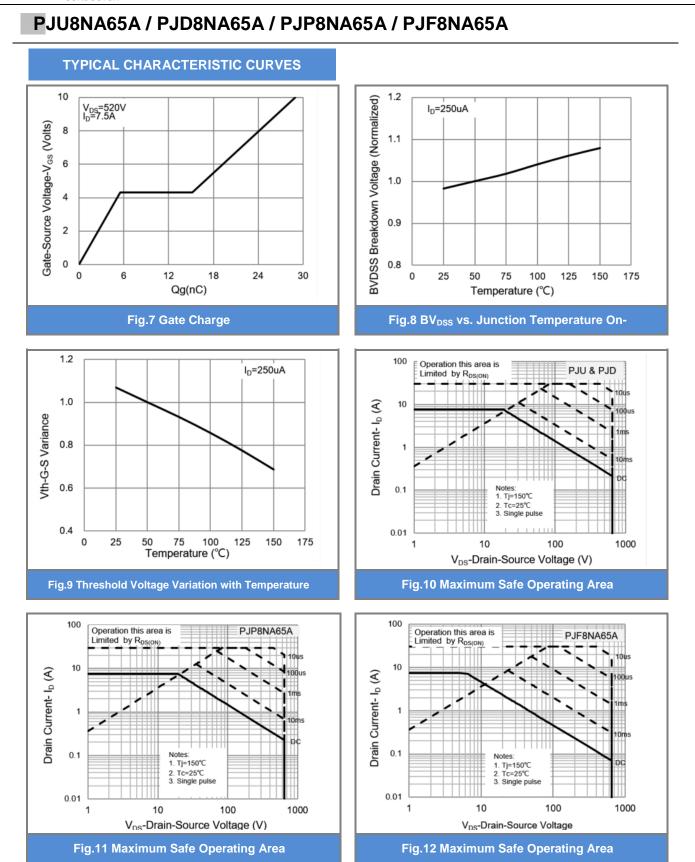
2. Pulse width <300us, Duty cycle <2%

3. Essentially independent of operating temperature typical characteristics.

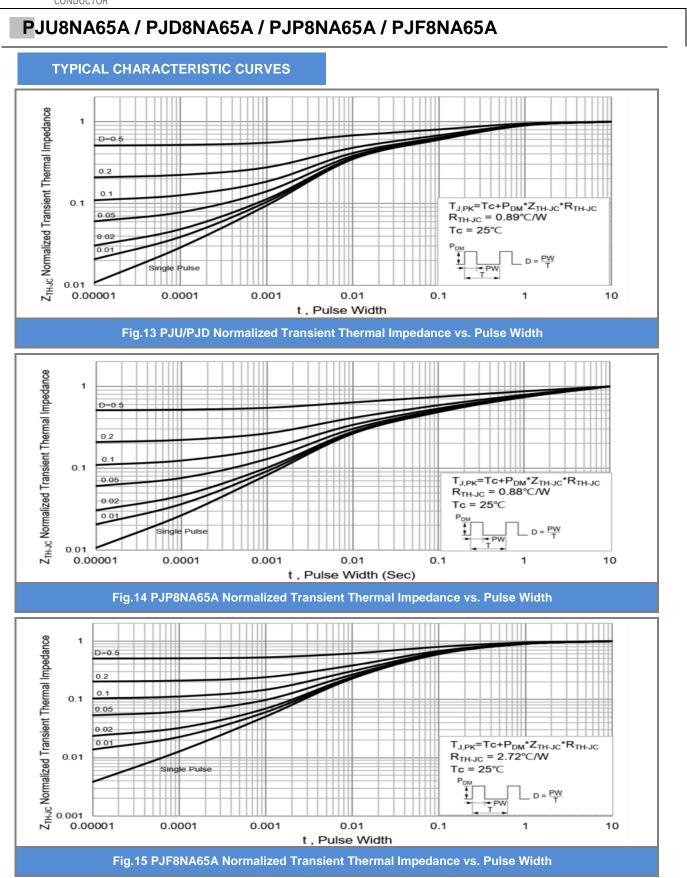
4. Guaranteed by design, not subject to production testing





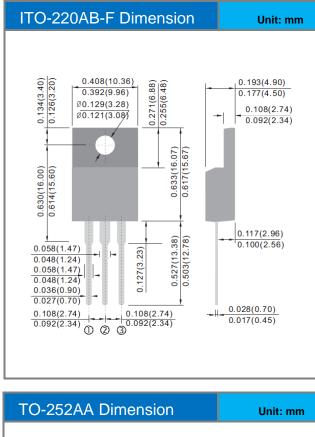


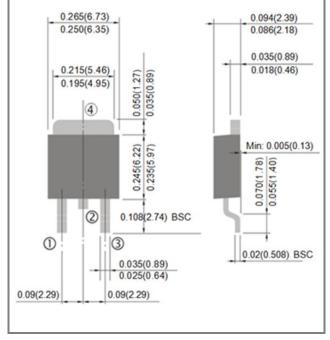


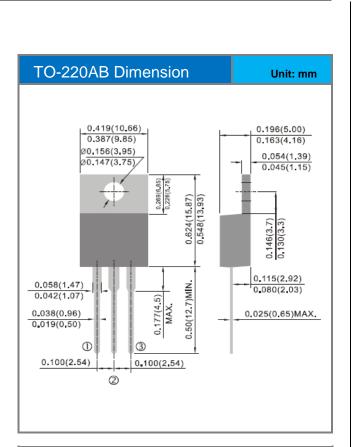


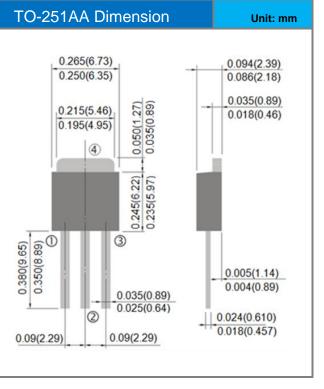


Packaging Information











PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJU8NA65A_T0_00001	TO-251AA	80pcs / Tube	U8NA65A	Halogen free
PJD8NA65A_L2_00001	TO-252AA	3,000pcs / 13" reel	D8NA65A	Halogen free
PJP8NA65A_T0_00001	TO-220AB	50pcs / Tube	P8NA65A	Halogen free
PJF8NA65A_T0_00001	ITO-220AB-F	50pcs / Tube	F8NA65A	Halogen free







Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)