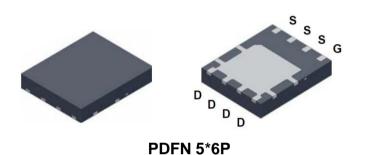
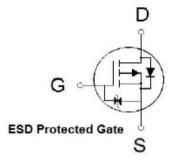




PRODUCT SUMMARY

V _{(BR)DSS}	R _{DS(ON)}	I _D ³
-30V	7mΩ @V _{GS} = -10V	-70A





ABSOLUTE MAXIMUM RATINGS (T_A = 25 °C Unless Otherwise Noted)

PARAMETERS	SYMBOL	LIMITS	UNITS		
Drain-Source Voltage	V _{DS}	-30	V		
Gate-Source Voltage		V _{GS}	±20	V	
Continuous Drain Current ³	T _C = 25 °C		-70		
Continuous Drain Current	T _C = 100 °C	I _D	-56		
Pulsed Drain Current ¹		I _{DM}	I _{DM} -150		
	T _A = 25 °C	I _D	-13	A	
Continuous Drain Current	T _A = 70 °C	D	-10		
Avalanche Current	I _{AS}	-71			
Avalanche Energy	L = 0.1mH	E _{AS}	252	mJ	
	T _C = 25 °C		50		
Power Dissinction	T _C = 100 °C	P _D	32	W	
Power Dissipation	T _A = 25 °C	ГD	2.5	vv	
	T _A = 70 °C		1.6		
Operating Junction & Storage	T _J , T _{STG}	-55 to 150	°C		





PZ0703EK

P-Channel Logic Level Enhancement Mode MOSFET

THERMAL RESISTANCE RATINGS

THERMAL RESISTANCE	SYMBOL	TYPICAL	MAXIMUM	UNITS
Junction-to-Case	$R_{ ext{ heta}JC}$		2.5	°C/W
Junction-to-Ambient	$R_{ ext{ heta}JA}$		50	

¹Pulse width limited by maximum junction temperature.

²The value of R_{0JA} is measured with the device mounted on $1in^2$ FR-4 board with 2oz. Copper, in a still air environment with $T_A = 25^{\circ}$ C. The value in any given application depends on the user's specific board design. ³Package limitation current is -51A.

ELECTRICAL CHARACTERISTICS (T_J = 25 °C, Unless Otherwise Noted)

PARAMETER	SYMBOL TEST CONDITIONS		LIMITS			UNITS		
PARAMETER	STWBOL	TEST CONDITIONS	MIN	TYP	MAX			
STATIC								
Drain-Source Breakdown Voltage	V _{(BR)DSS}	$V_{(BR)DSS}$ $V_{GS} = 0V, I_D = -250\mu A$				V		
Gate Threshold Voltage	V _{GS(th)}	$V_{DS} = V_{GS}, I_D = -250 \mu A$	-1	-1.4	-3	v		
Gate-Body Leakage	I _{GSS}	$V_{DS} = 0V, V_{GS} = \pm 16V$			±30	μA		
Zero Gate Voltage Drain Current	la sa	$V_{DS} = -24V, V_{GS} = 0V$			-1	μA		
	I _{DSS}	$V_{DS} = -20V, V_{GS} = 0V, T_{J} = 125 \ ^{\circ}C$			-10	μΑ		
Drain-Source On-State	Bassin	$V_{GS} = -4.5V, I_{D} = -20A$		5.7	10			
Resistance ¹	R _{DS(ON)}	$V_{GS} = -10V, I_D = -20A$		3.8	7	mΩ		
Forward Transconductance ¹	g _{fs}	$V_{DS} = -5V, I_{D} = -12A$		65		S		
		DYNAMIC						
Input Capacitance	C _{iss}	V _{GS} = 0V, V _{DS} = -15V, f = 1MHz		5210		pF		
Output Capacitance	C _{oss}			960				
Reverse Transfer Capacitance	C _{rss}			890				
\mathbf{T}_{1}	$Q_g(V_{GS}=10V)$			121				
Total Gate Charge ²	$Q_g(V_{GS}=4.5V)$	$V_{DS} = -15V, V_{GS} = -10V,$		64		nC		
Gate-Source Charge ²	Q _{gs}	I _D = -20A		12				
Gate-Drain Charge ²	Q _{gd}			27				
Turn-On Delay Time ²	t _{d(on)}			33				
Rise Time ²	t _r	V _{DS} = -15V,		25		~		
Turn-Off Delay Time ²	t _{d(off)}	$I_D\cong -20A, \ V_{GS}=-10V, \ R_{GS}=6\Omega$		100		nS		
Fall Time ²	t _f	1		45		1		





SOURCE-DRAIN DIODE RATINGS AND CHARACTERISTICS (T _J = 25 °C)								
Continuous Current ³	I _S				-70	А		
Forward Voltage ¹	V _{SD}	I_{F} = -20A, V_{GS} = 0V			-1.3	V		
Reverse Recovery Time	t _{rr}	I_F = -20A, dI _F /dt = 100A / µS		26.5		nS		
Reverse Recovery Charge	Q _{rr}			16		nC		

 $^{1}\text{Pulse test}$: Pulse Width $\leq 300~\mu\text{sec},$ Duty Cycle $\leq 2\%.$

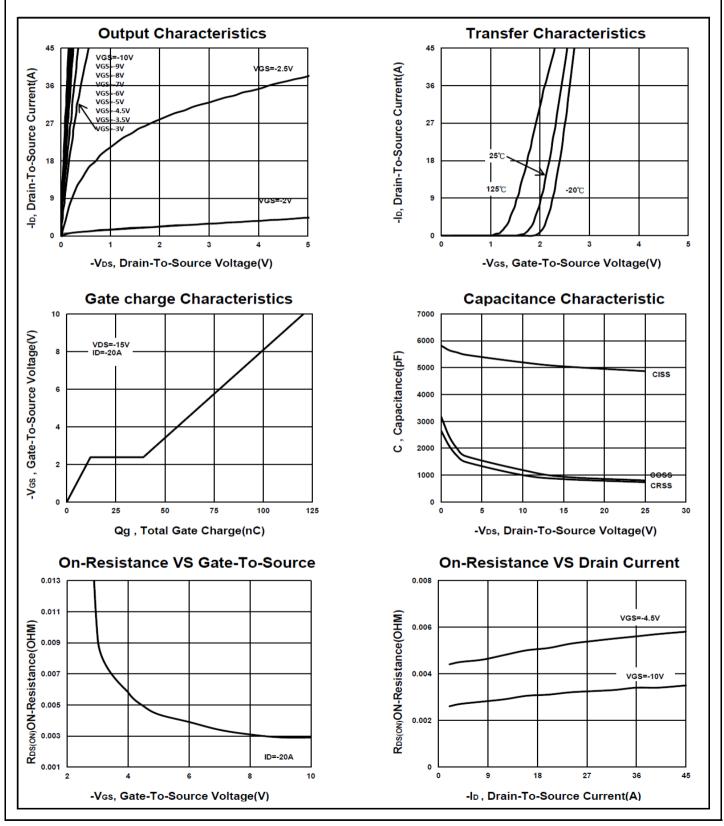
²Independent of operating temperature.

³Package limitation current is -51A.

3

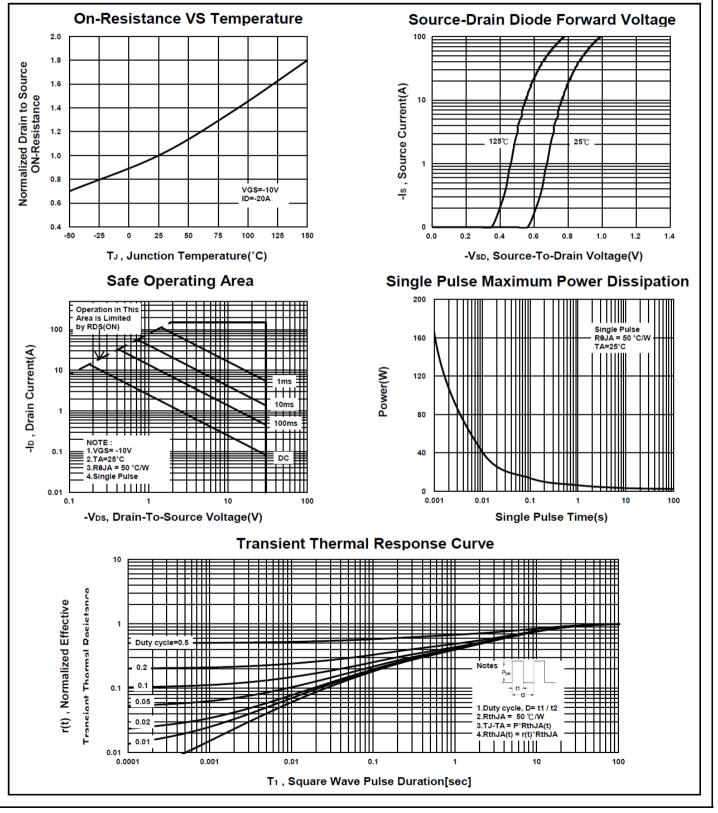










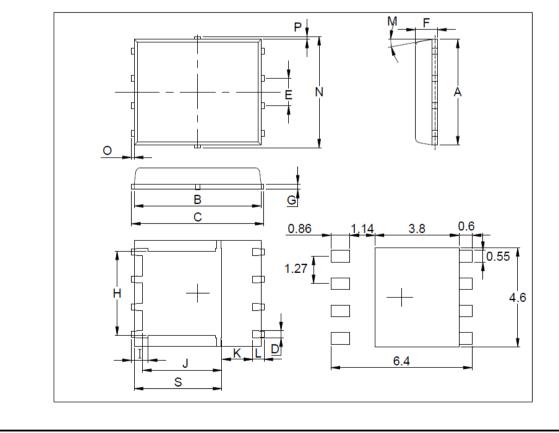






Package Dimension

	mm				mm			
Dimension	Min.	Тур.	Max.	Dimension	Min.	Тур.	Max.	
А	4.8		5.15	J	3.33		3.78	
В	5.44		5.9	к	0.9			
С	5.9		6.35	L	0.35		0.712	
D	0.33		0.51	М	0°		12°	
E		1.27		N	4.8		5.5	
F	0.8		1.25	0	0.05		0.3	
G	0.15		0.34	Р	0.06		0.2	
Н	3.61		4.31	S	3.69		4.19	
I	0.35		0.71					



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