



YJS085P10A

P-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	-100V
I_D	-3.3A
$R_{DS(ON)}$ (at $V_{GS}=-10V$)	85m
$R_{DS(ON)}$ (at $V_{GS}=-4.5V$)	104m
100% EAS Tested	

General Description

Excellent package for heat dissipation
High density cell design for low $R_{DS(ON)}$
Moisture Sensitivity Level 1
Epoxy Meets UL 94 V-0 Flammability Rating
Halogen Free

Applications

Power switching application
Uninterruptible power supply
DC-DC convertor

Limiting Values

Parameter	Conditions		Symbol	Min	Max	Unit
Drain-source Voltage	T _J % T _J 150°C		V _{DS}	-	-100	V
Gate-source Voltage	T _J 150°C;DC		V _{GS}	-20	20	
Continuous Drain Current (Note 1,2)	Steady-State	T _A =25°C,V _{GS} =-10V	I _D	-	-3.3	A
		T _A =100°C,V _{GS} =-10V		-	-2.1	
Pulsed Drain Current	T _A =25 ,t _p ≤10μs		I _{DM}	-	-26	
Maximum Body-Diode Continuous Current	T _A =25		I _S		-2.4	
Avalanche energy (non-repetitive)	T _J =25°C,V _G =-10V,R _G =2 L=0.5mH,IAS=-16A		EAS	-	64	mJ
Total Power Dissipation (Note 1,2)	Steady-State	T _A =25°C	P _D	-	1.9	W
		T _A =100°C		-	0.7	
Junction and Storage Temperature Range			T _J , T _{STG}	-55	150	°C

Thermal Resistance

Parameter	Symbol	Typ	Max	Units
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Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						



Typical Electrical and Thermal Characteristics Diagrams

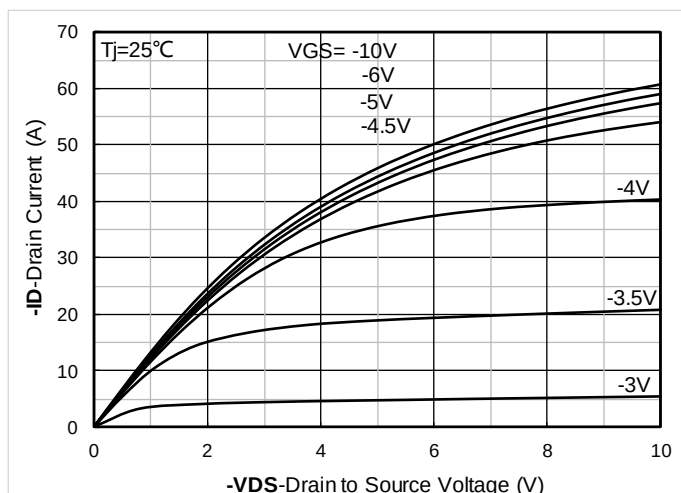


Figure 1. Output Characteristics; typical values

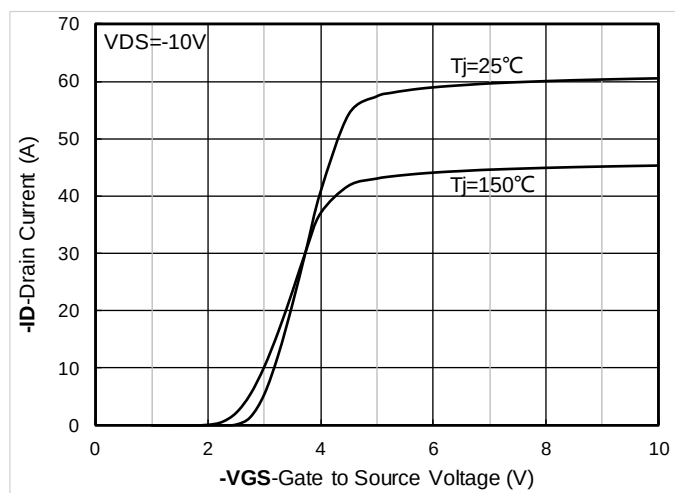


Figure 2. Transfer Characteristics; typical values

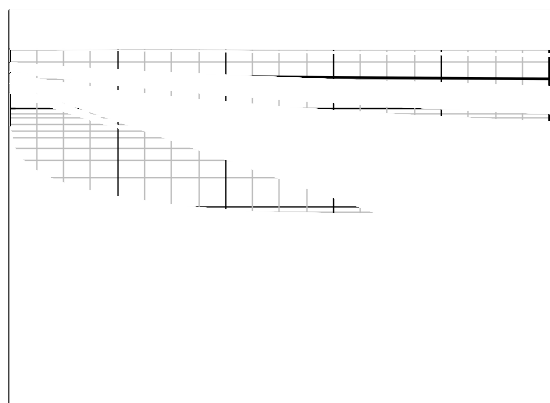


Figure 3. Capacitance Characteristics; typical values

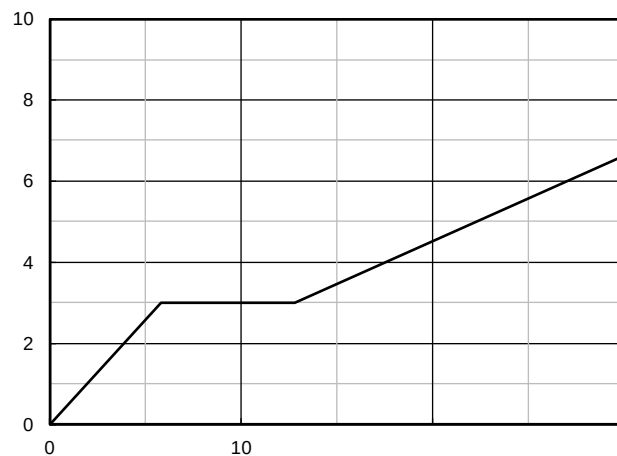


Figure 4. Gate Charge; typical values

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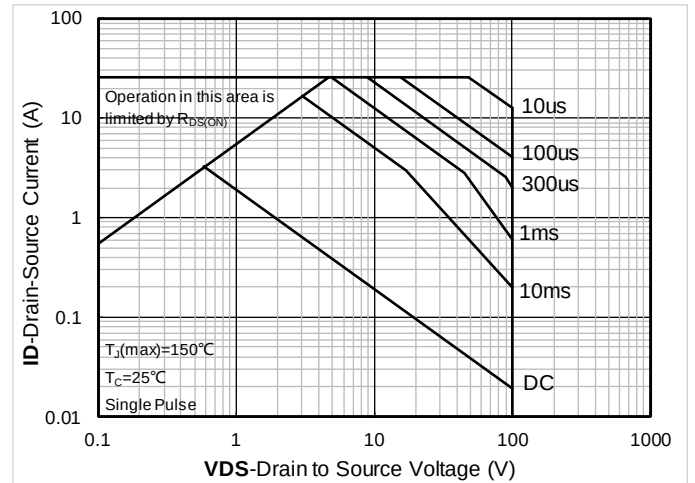


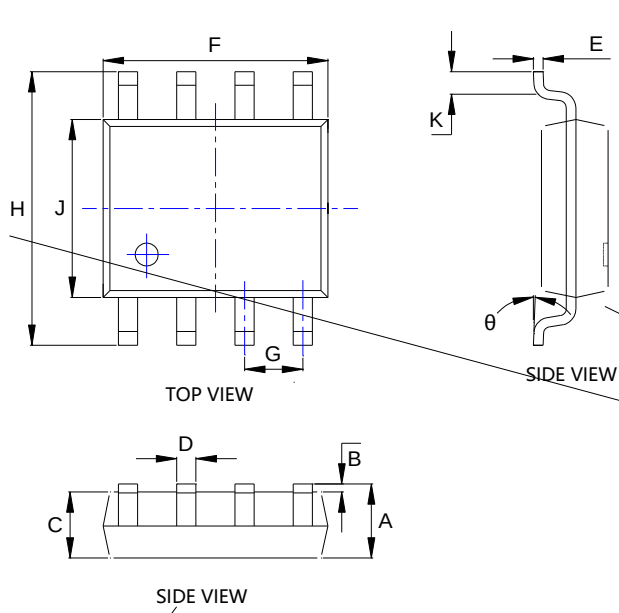
Figure 13. Maximum Transient Thermal Impedance

Figure 14. Safe Operation Area



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SOP-8 Package information

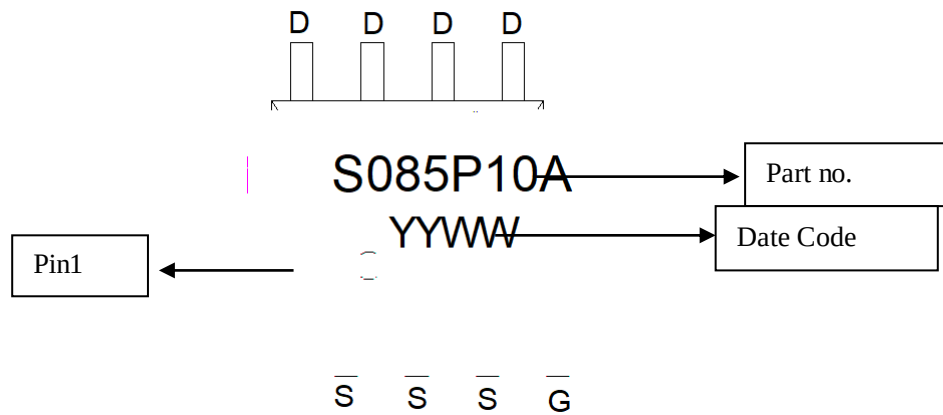


SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.053	0.069		
B	0.004	0.010		
C		0.061		
D		0.020		
E				
F				
G	0.050BSC		1.270BSC	
H				
J				
K				
θ	0°	8°	0°	∞



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Marking



Note

1. All marking is at middle of the product body
2. All marking is in laser printing
3. S085P10A is part no., YYWW is date code,
4. Body color: Black



Disclaimer