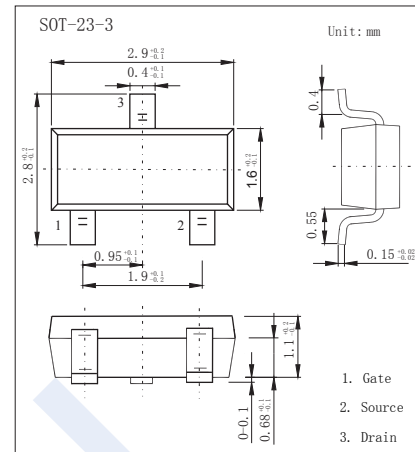
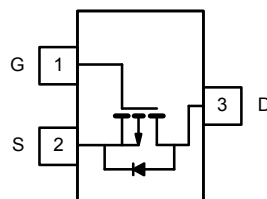


P-Channel Enhancement MOSFET

SI2307DS (KI2307DS)

■ Features

- $V_{DS} (V) = -30V$
- $I_D = -3.0A$ ($V_{GS} = -10V$)
- $R_{DS(ON)} < 80m\Omega$ ($V_{GS} = -10V$)
- $R_{DS(ON)} < 140m\Omega$ ($V_{GS} = -4.5V$)



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	5 sec	Unit	
Drain-Source Voltage	V_{DS}	-30	V	
Gate-Source Voltage	V_{GS}	± 20		
Continuous Drain Current $T_J = 150^\circ C$ (Note.1,2)	I_D	$T_a = 25^\circ C$	-3	A
		$T_a = 70^\circ C$	-2.5	
Pulsed Drain Current	I_{DM}	-12		
Power Dissipation (Note.1,2)	P_D	$T_a = 25^\circ C$	1.25	W
		$T_a = 70^\circ C$	0.8	
Thermal Resistance.Junction- to-Ambient	R_{thJA}	$t \leq 5$ sec	100	$^\circ C/W$
Junction Temperature	T_J	150	$^\circ C$	
Junction and Storage Temperature Range	T_{stg}	-55 to 150		

Note.1: Surface mounted on FR4 board.

Note.2: $t \leq 5$ sec.

P-Channel Enhancement MOSFET

SI2307DS (K12307DS)

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V _{DSS}	I _D =-250μ A, V _{GS} =0V	-30			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-1	μ A
		V _{DS} =-24V, V _{GS} =0V, T _J =55°C			-10	
Gate-Body leakage current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} I _D =-250 μ A	-1.0		-3.0	V
Static Drain-Source On-Resistance *1	R _{DS(on)}	V _{GS} =-10V, I _D =-3A		64	80	m Ω
		V _{GS} =-4.5V, I _D =-2.5A		103	140	
On state drain current *1	I _{D(ON)}	V _{GS} =-10V, V _{DS} =-5V	-6			A
Forward Transconductance *1	g _{FS}	V _{DS} =-10V, I _D =-3A		4.5		S
Input Capacitance	C _{iss}	V _{GS} =0V, V _{DS} =-15V, f=1MHz		565		pF
Output Capacitance	C _{oss}			126		
Reverse Transfer Capacitance	C _{rss}			75		
Total Gate Charge	Q _g			10	15	
Gate Source Charge	Q _{gs}	V _{GS} =-15V, V _{DS} =-15V, I _D =-3A		1.9		
Gate Drain Charge	Q _{gd}			2		
Turn-On DelayTime	t _{d(on)}		V _{GS} =-10V, V _{DS} =-15V, R _L =15 Ω, R _{GEN} =6 Ω I _D =-1.0A		10	20
Turn-On Rise Time	t _r			9	20	
Turn-Off DelayTime	t _{d(off)}			27	50	
Turn-Off Fall Time	t _f			7	16	
Maximum Body-Diode Continuous Current	I _S					-1.25
Diode Forward Voltage	V _{SD}	I _S =-1.25A, V _{GS} =0			-1.2	V

*1Pulse test: PW ≤ 300us duty cycle ≤ 2%.

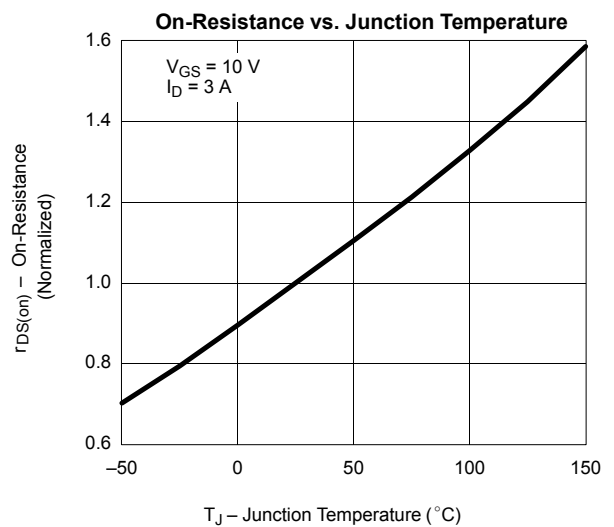
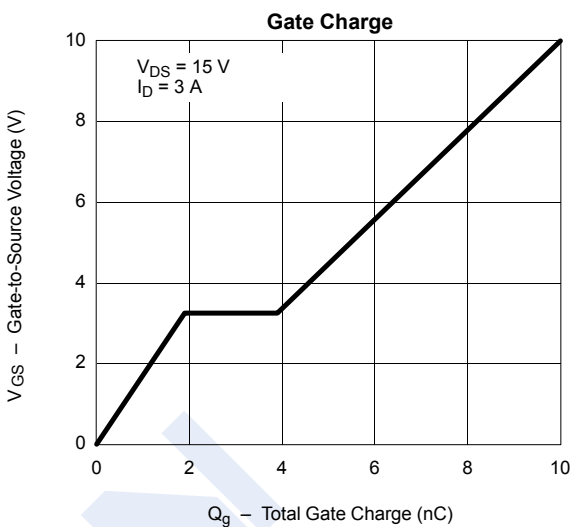
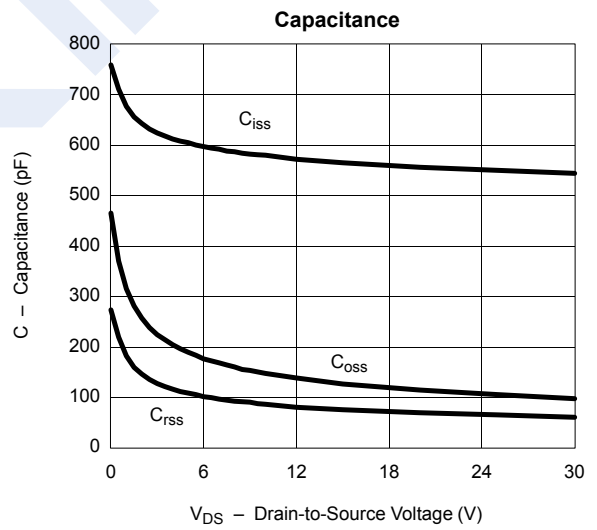
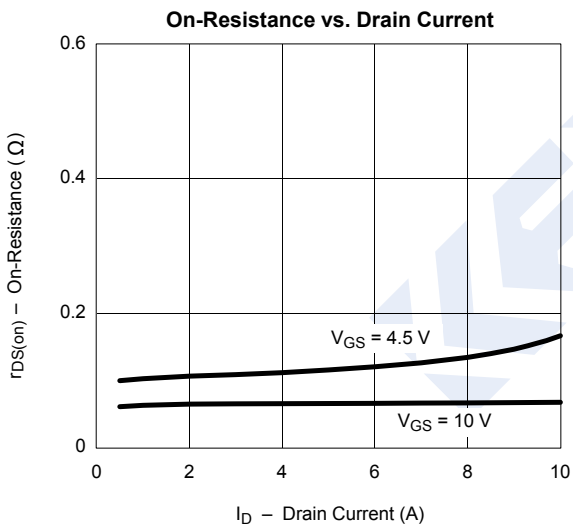
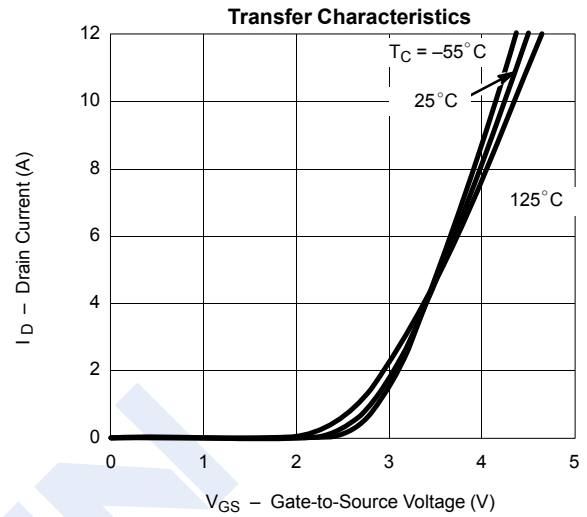
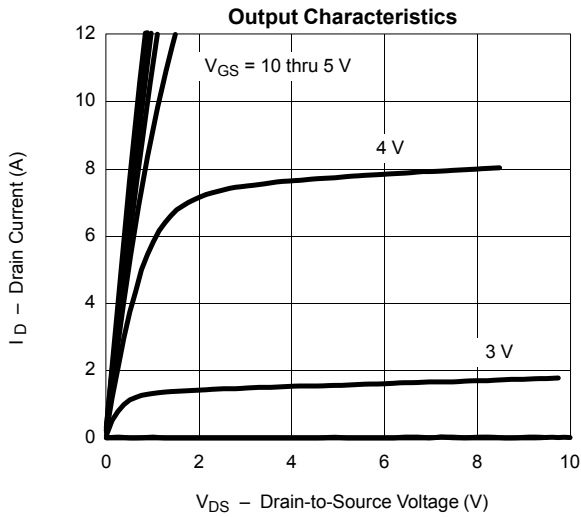
■ Marking

Marking	A7*
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P-Channel Enhancement MOSFET

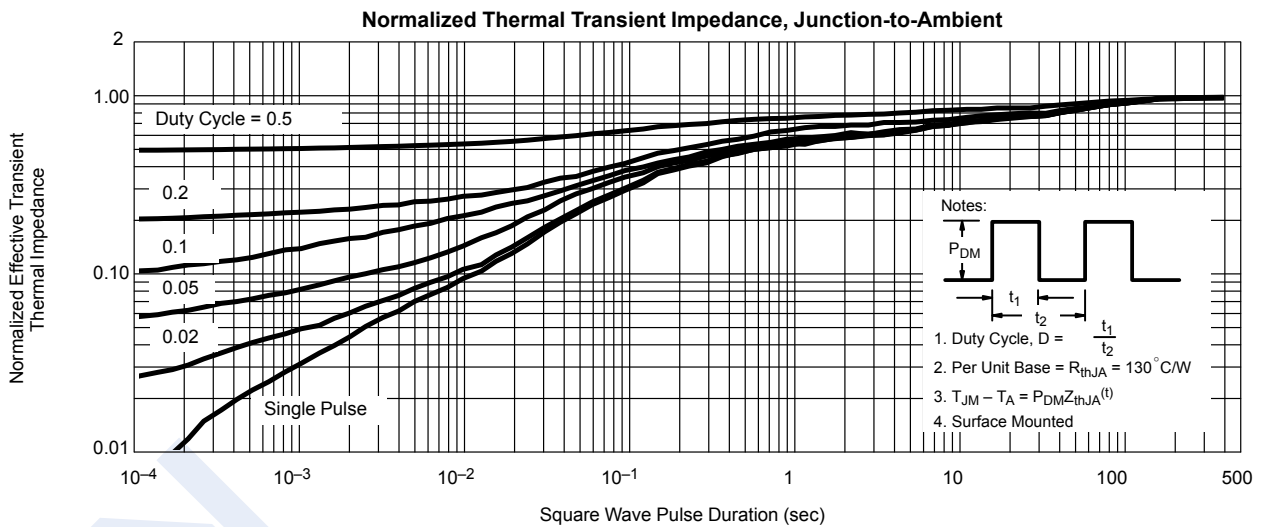
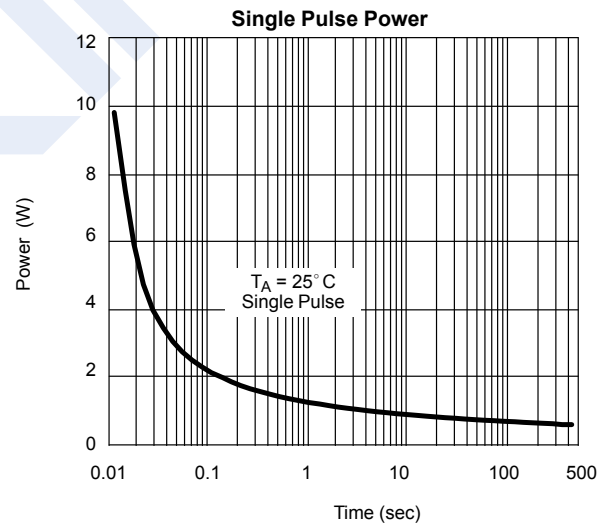
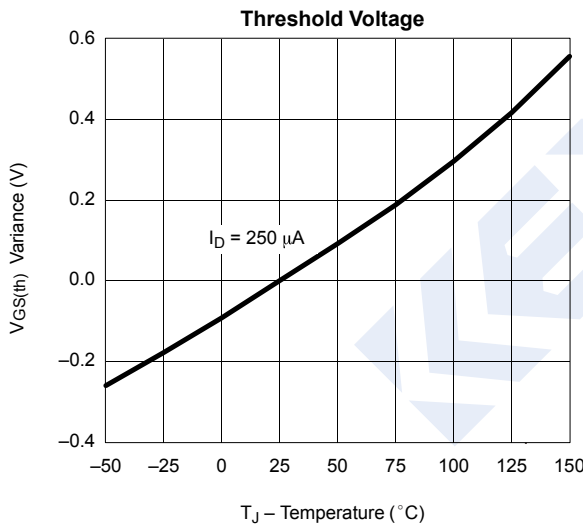
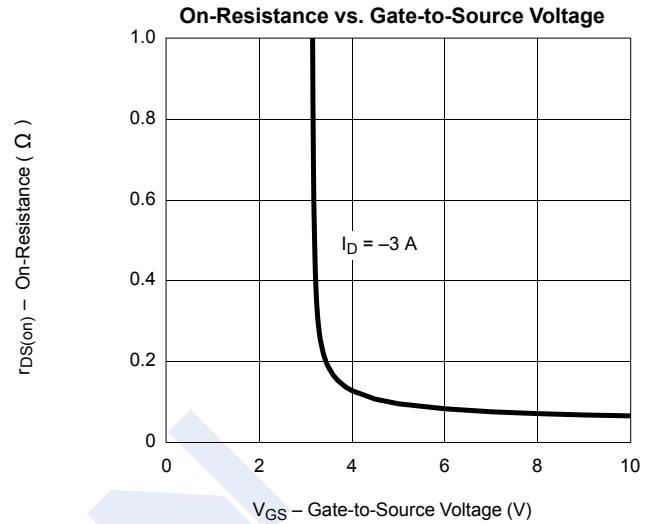
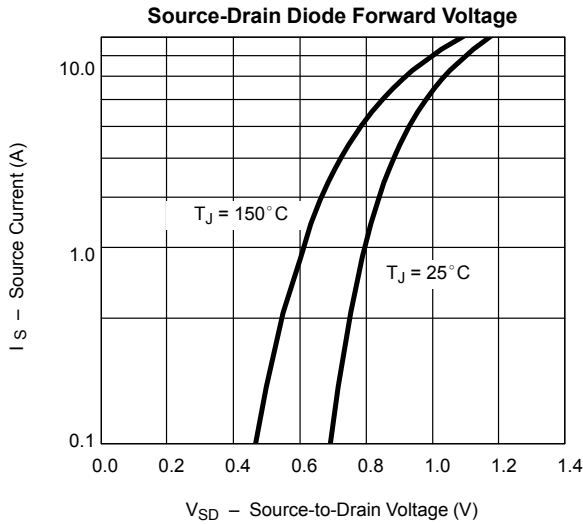
SI2307DS (KI2307DS)

■ Typical Characteristics



P-Channel Enhancement MOSFET SI2307DS (KI2307DS)

■ Typical Characteristics



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