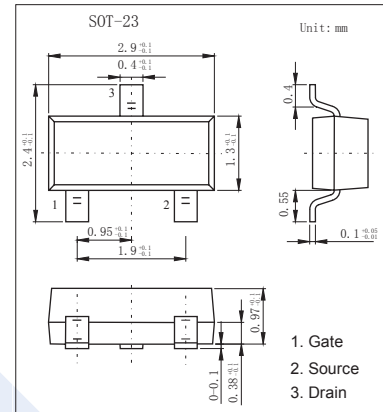
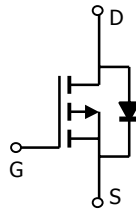


P-Channel Enhancement MOSFET

AO3407 (KO3407)

■ Features

- $V_{DS} (V) = -30V$
- $I_D = -4.1 A$
- $R_{DS(ON)} < 52m\Omega$ ($V_{GS} = -10V$)
- $R_{DS(ON)} < 87m\Omega$ ($V_{GS} = -4.5V$)

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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	± 20	
Continuous Drain Current	I_D	$T_a = 25^\circ C$	A
		$T_a = 70^\circ C$	
Pulsed Drain Current	I_{DM}	-20	
Power Dissipation	P_D	$T_a = 25^\circ C$	W
		$T_a = 70^\circ C$	
Thermal Resistance.Junction- to-Ambient	R_{thJA}	$t \leq 10s$	$^\circ C/W$
		Steady State	
Thermal Resistance.Junction- to-Lead	R_{thJL}	60	
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

P-Channel Enhancement MOSFET

AO3407 (KO3407)

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V _{DSS}	I _D =-250 μ 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			-5	
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	-1.8	-3	V
Static Drain-Source On-Resistance	R _{DS(on)}	V _{GS} =-10V, I _D =-4.1A		40.5	52	mΩ
		V _{GS} =-10V, I _D =-4.A T _J =125°C		57	73	
		V _{GS} =-4.5V, I _D =-3A		64	87	
On state drain current	I _{D(ON)}	V _{GS} =-4.5V, V _{DS} =-5V	-10			A
Forward Transconductance	g _{FS}	V _{DS} =-5V, I _D =-4A	5.5	8.2		S
Input Capacitance	C _{iss}	V _{GS} =0V, V _{DS} =-15V, f=1MHz		700		pF
Output Capacitance	C _{oss}			120		
Reverse Transfer Capacitance	C _{rss}			75		
Gate resistance	R _g		V _{GS} =0V, V _{DS} =0V, f=1MHz		10	
Total Gate Charge	Q _g	V _{GS} =-4.5V, V _{DS} =-15V, I _D =-4A		14.3		nC
Gate Source Charge	Q _{gs}			7		
Gate Drain Charge	Q _{gd}			3.1		
Turn-On DelayTime	t _{d(on)}	V _{GS} =-10V, V _{DS} =-15V, R _L =3.6Ω, R _{GEN} =3Ω		8.6		ns
Turn-On Rise Time	t _r			5		
Turn-Off DelayTime	t _{d(off)}			28.2		
Turn-Off Fall Time	t _f			13.5		
Body Diode Reverse Recovery Time	t _{rr}			27		
Body Diode Reverse Recovery Charge	Q _{rr}	I _F =-4A, di/dt=100A/μ s		15		nC
Maximum Body-Diode Continuous Current	I _S				-2.2	A
Diode Forward Voltage	V _{SD}	I _S =-1A, V _{GS} =0V		-0.77	-1	V

■ Marking

Marking	A7*
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P-Channel Enhancement MOSFET

AO3407 (KO3407)

Typical Characteristics

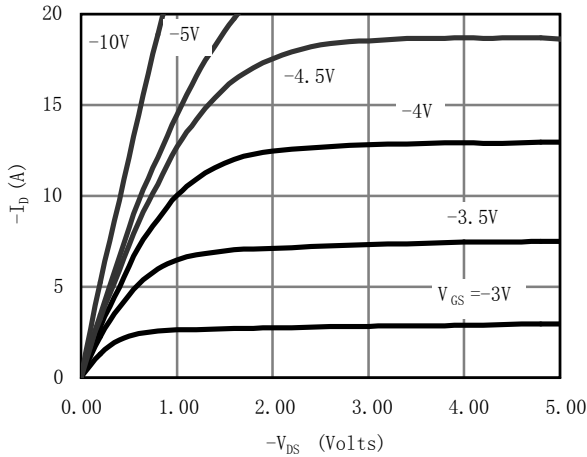


Figure 1: On-Region Characteristics

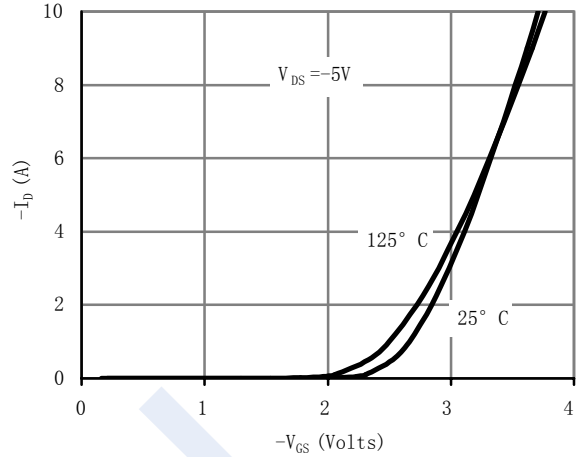


Figure 2: Transfer Characteristics

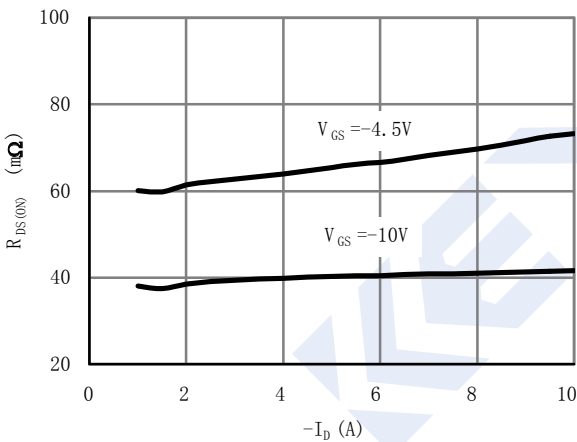


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

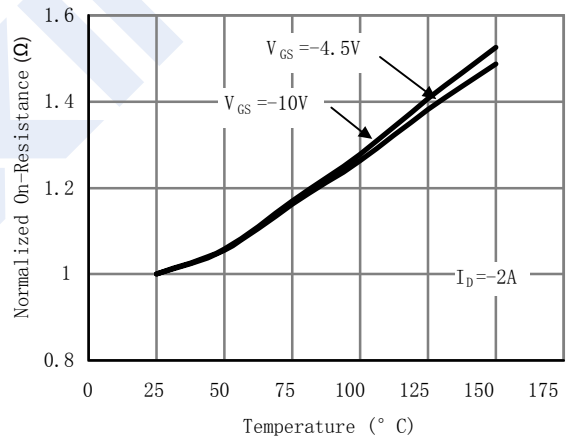


Figure 4: On-Resistance vs. Junction Temperature

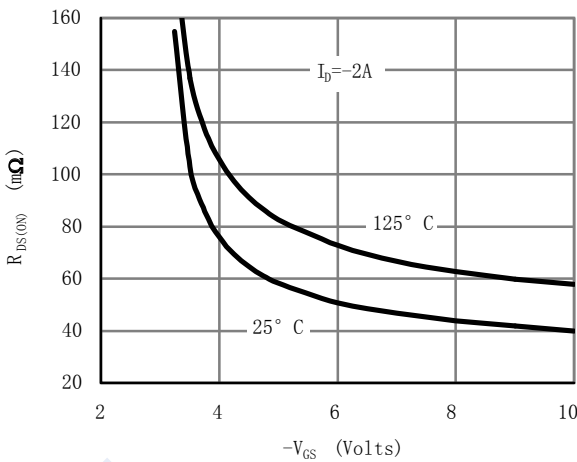


Figure 5: On-Resistance vs. Gate-Source Voltage

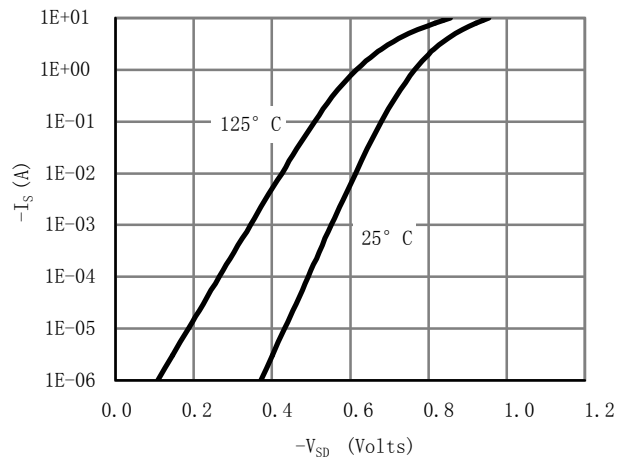


Figure 6: Body-Diode Characteristics

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Typical Characteristics

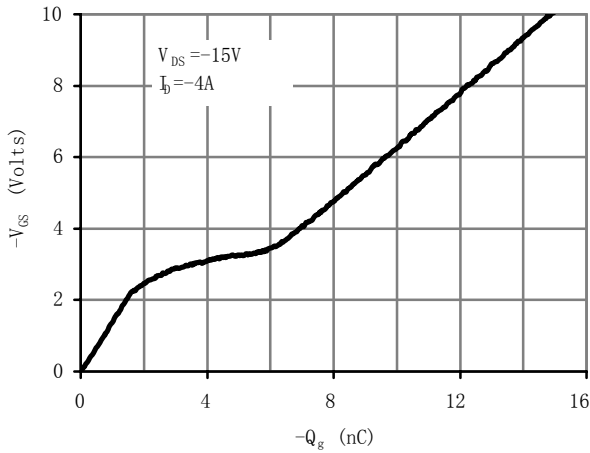


Figure 7: Gate-Charge Characteristics

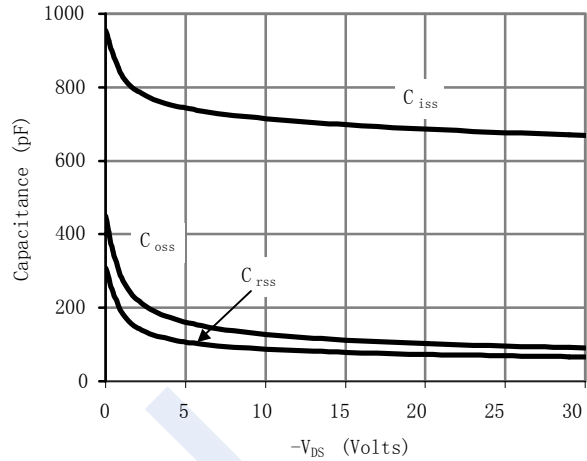


Figure 8: Capacitance Characteristics

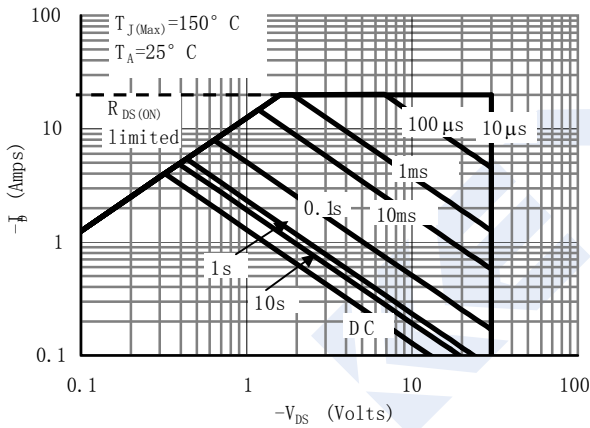


Figure 9: Maximum Forward Biased Safe Operating Area (Note E)

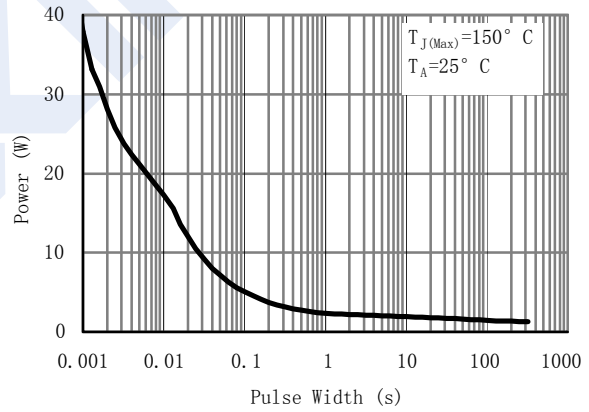


Figure 10: Single Pulse Power Rating Junction-to-Ambient (Note E)

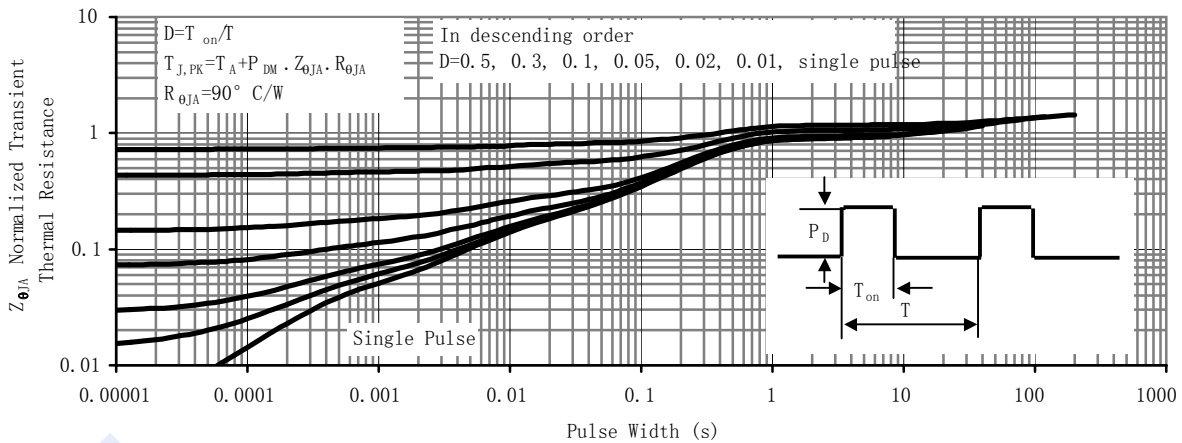


Figure 11: Normalized Maximum Transient Thermal Impedance

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