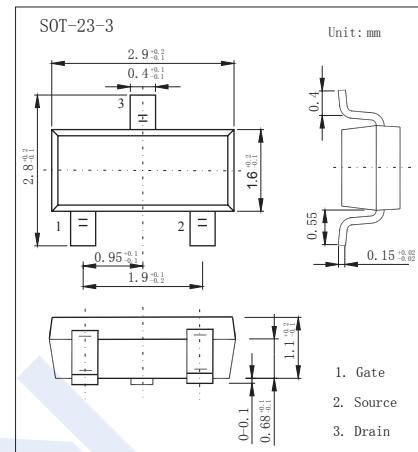
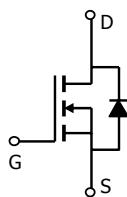


N-Channel Enhancement MOSFET

AO3402 (KO3402)

■ Features

- $V_{DS(V)} = 30V$
- $I_D = 4 A$
- $R_{DS(ON)} < 55m\Omega$ ($V_{GS} = 10V$)
- $R_{DS(ON)} < 70m\Omega$ ($V_{GS} = 4.5V$)
- $R_{DS(ON)} < 110m\Omega$ ($V_{GS} = 2.5V$)



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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Gate-Source Voltage	V_{GS}	± 12	V
Continuous Drain Current $TA=25^\circ C$	I_D	4	A
$TA=70^\circ C$		3.4	
Pulsed Drain Current	I_{DM}	15	
Power Dissipation $TA=25^\circ C$	P_D	1.4	W
$TA=70^\circ C$		1	
Thermal Resistance.Junction-to-Ambient	$R_{\theta JA}$	125	$^\circ C/W$
Thermal Resistance.Junction-to-Case	$R_{\theta JC}$	80	$^\circ C/W$
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^\circ C$

AO3402 (KO3402)■ Electrical Characteristics $T_a = 25^\circ\text{C}$

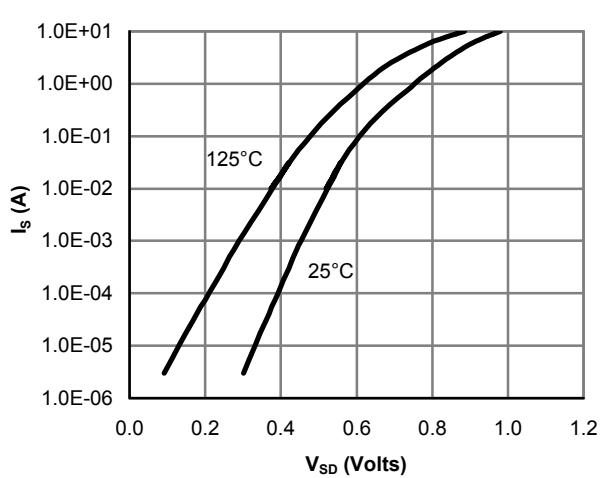
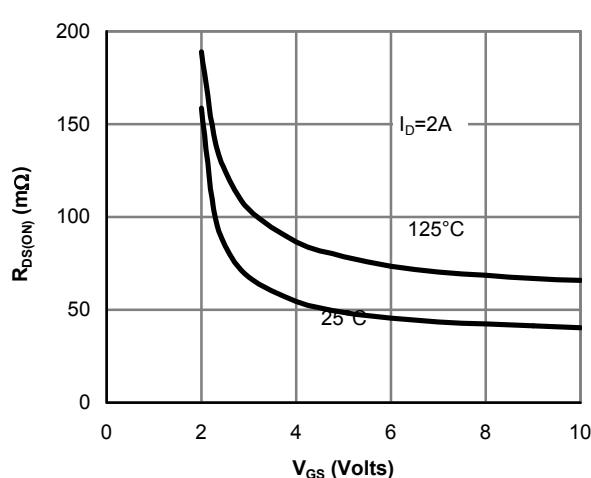
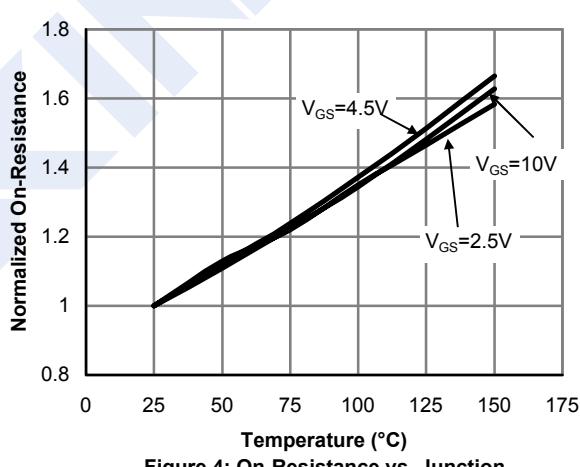
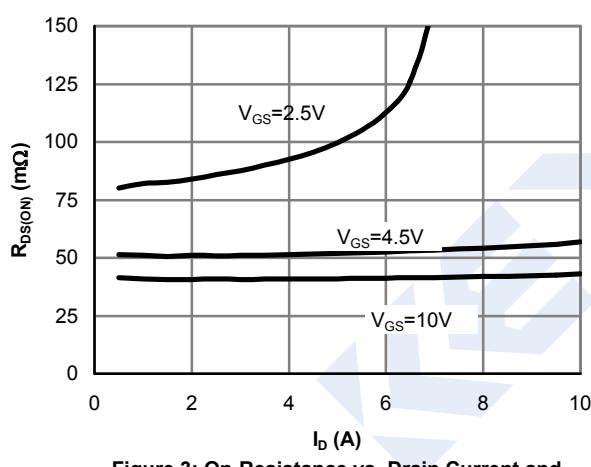
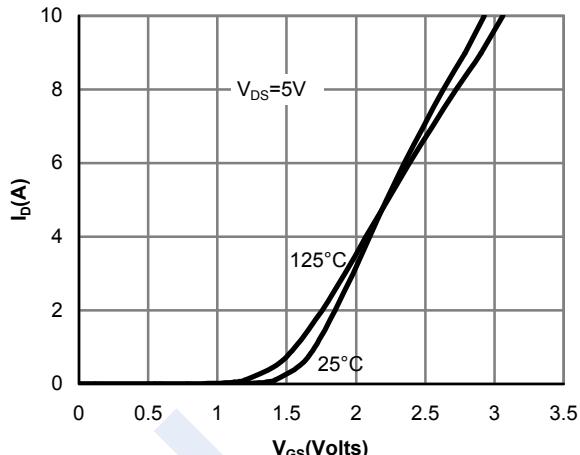
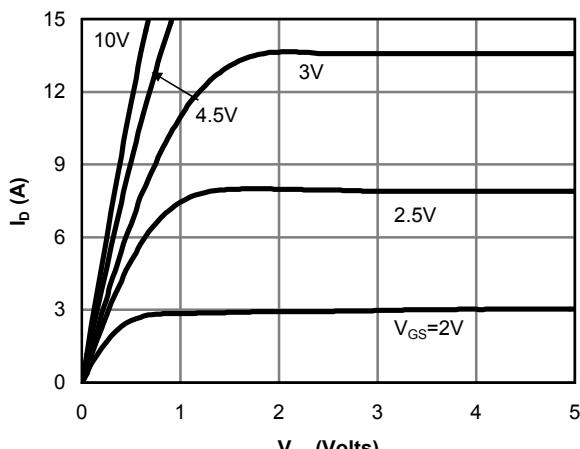
Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V_{DSS}	$I_D=250 \mu\text{A}, V_{GS}=0\text{V}$	30			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=24\text{V}, V_{GS}=0\text{V}$		1		μA
		$V_{DS}=24\text{V}, V_{GS}=0\text{V}, T_J=55^\circ\text{C}$		5		
Gate-Body leakage current	I_{GSS}	$V_{DS}=0\text{V}, V_{GS}=\pm 12\text{V}$		± 100	nA	
Gate Threshold Voltage	$V_{GS(\text{th})}$	$V_{DS}=V_{GS}, I_D=250 \mu\text{A}$	0.6	1	1.4	V
Static Drain-Source On-Resistance	$R_{DS(\text{ON})}$	$V_{GS}=10\text{V}, I_D=4\text{A}$		45	55	$\text{m}\Omega$
		$V_{GS}=10\text{V}, I_D=4\text{A}, T_J=125^\circ\text{C}$		66	80	
		$V_{GS}=4.5\text{V}, I_D=3\text{A}$		55	70	$\text{m}\Omega$
		$V_{GS}=2.5\text{V}, I_D=2\text{A}$		83	110	$\text{m}\Omega$
On state drain current	$I_{D(\text{ON})}$	$V_{GS}=4.5\text{V}, V_{DS}=5\text{V}$	10			A
Forward Transconductance	g_{FS}	$V_{DS}=5\text{V}, I_D=4\text{A}$		8		S
Input Capacitance	C_{iss}	$V_{GS}=0\text{V}, V_{DS}=15\text{V}, f=1\text{MHz}$		390		pF
Output Capacitance	C_{oss}			54.5		pF
Reverse Transfer Capacitance	C_{rss}			41		pF
Gate resistance	R_g	$V_{GS}=0\text{V}, V_{DS}=0\text{V}, f=1\text{MHz}$		3		Ω
Total Gate Charge	Q_g	$V_{GS}=4.5\text{V}, V_{DS}=15\text{V}, I_D=-4\text{A}$		4.34		nC
Gate Source Charge	Q_{gs}			0.6		nC
Gate Drain Charge	Q_{gd}			1.38		nC
Turn-On Delay Time	$t_{D(\text{on})}$			3.3		ns
Turn-On Rise Time	t_r	$V_{GS}=10\text{V}, V_{DS}=15\text{V}, R_L=3.75 \Omega, R_{GEN}=6 \Omega$		1		ns
Turn-Off Delay Time	$t_{D(\text{off})}$			21.7		ns
Turn-Off Fall Time	t_f			2.1		ns
Body Diode Reverse Recovery Time	t_{rr}			12		ns
Body Diode Reverse Recovery Charge	Q_{rr}	$I_F=4\text{A}, dI/dt=100\text{A}/\mu\text{s}$		6.3		nC
Maximum Body-Diode Continuous Current	I_s				2.5	A
Diode Forward Voltage	V_{SD}	$I_s=1\text{A}, V_{GS}=0\text{V}$		0.8	1	V

■ Marking

Marking	A2*
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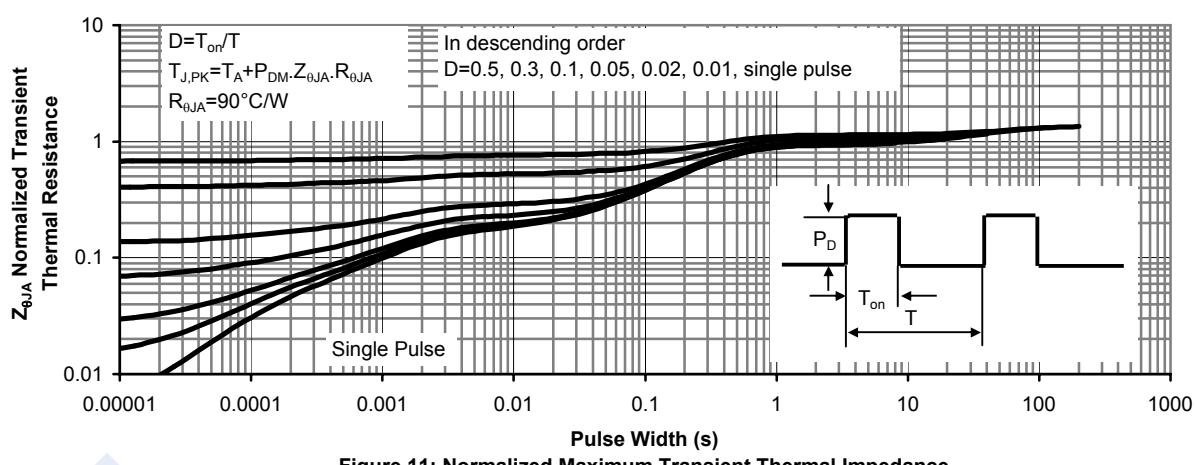
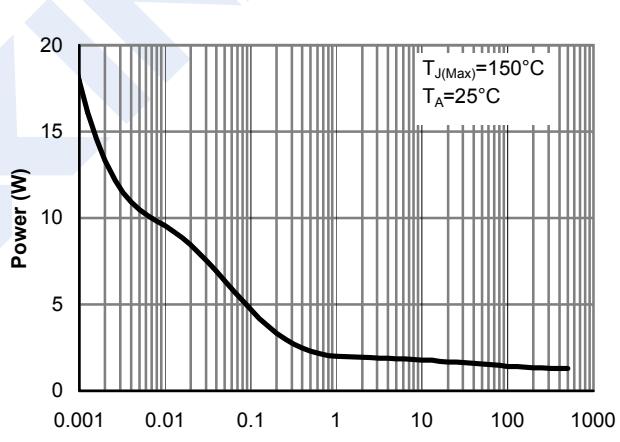
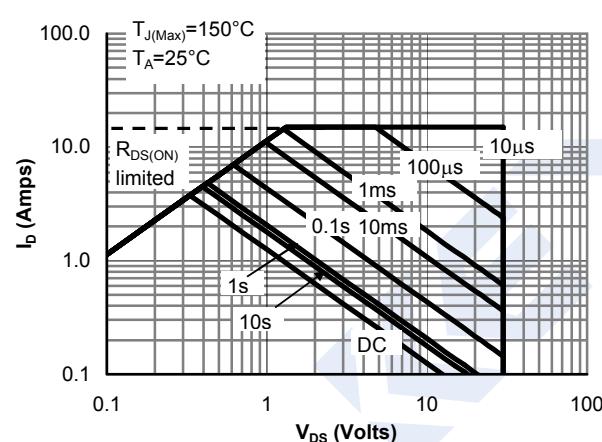
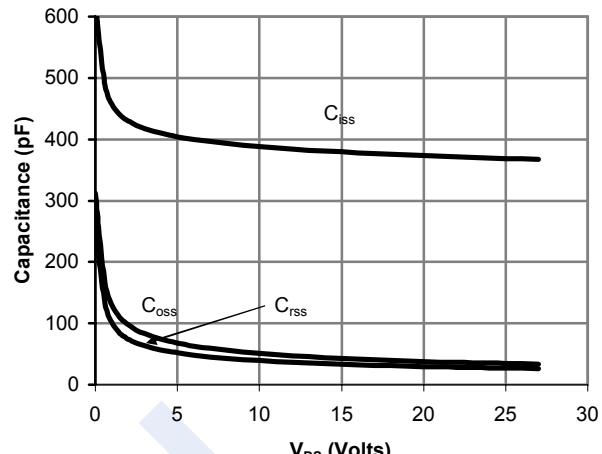
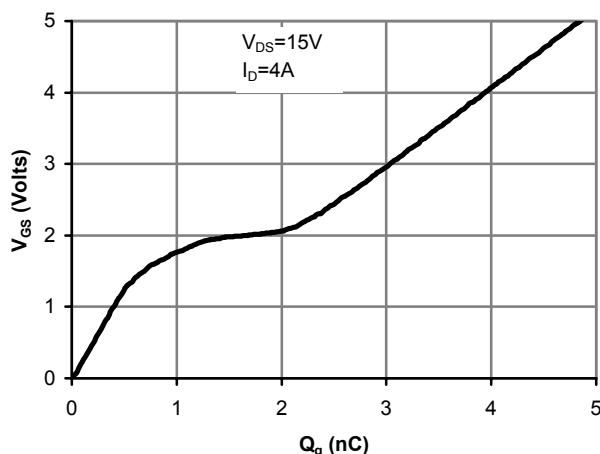
AO3402 (KO3402)

■ Typical Characteristics



AO3402 (KO3402)

■ Typical Characteristics



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