

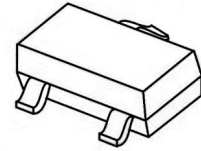
ATM7002KNSA

N-Channel Enhancement Mode Field Effect Transistor

Drain-Source Voltage:60V Continuous Drain Current:300mA

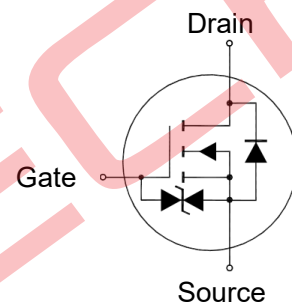
FEATURES

- ◆ Low on resistance $R_{DS(ON)}$
- ◆ Low gate threshold voltage
- ◆ Low input capacitance
- ◆ ESD protected up to 2KV



SOT-23

1.Gate 2.Source 3.Drain



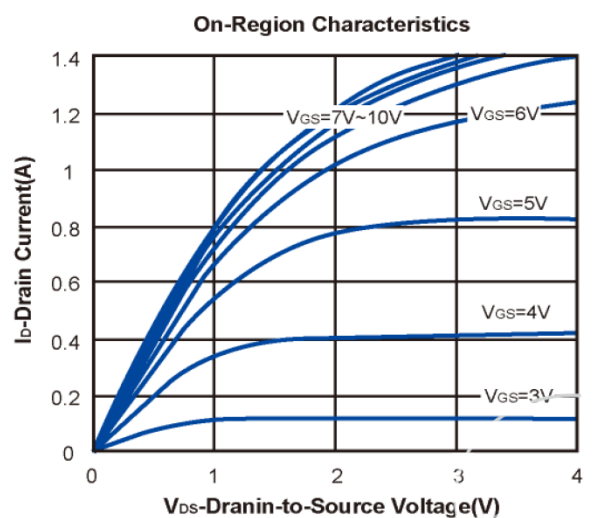
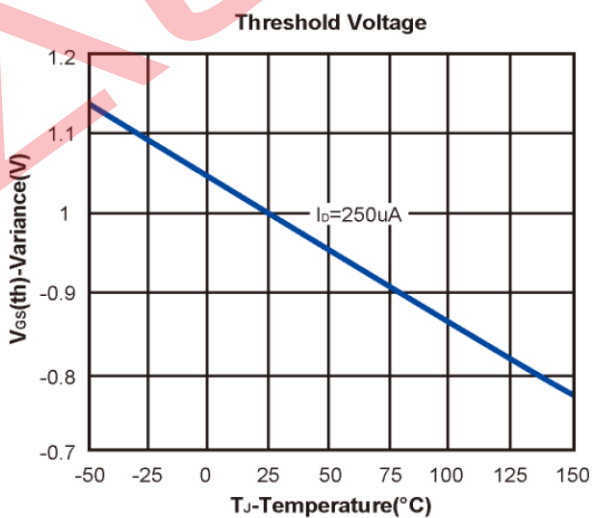
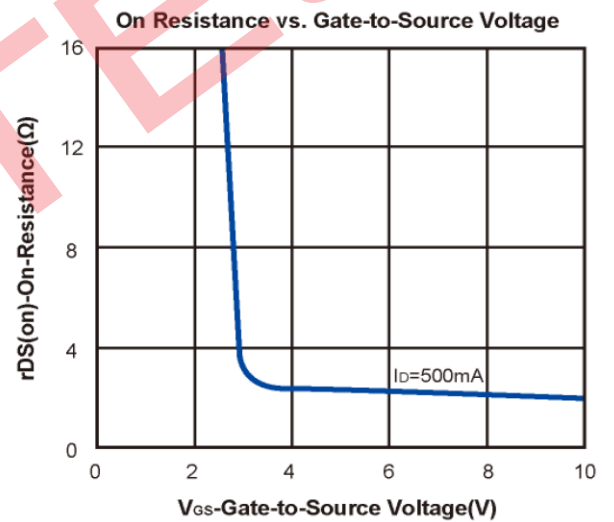
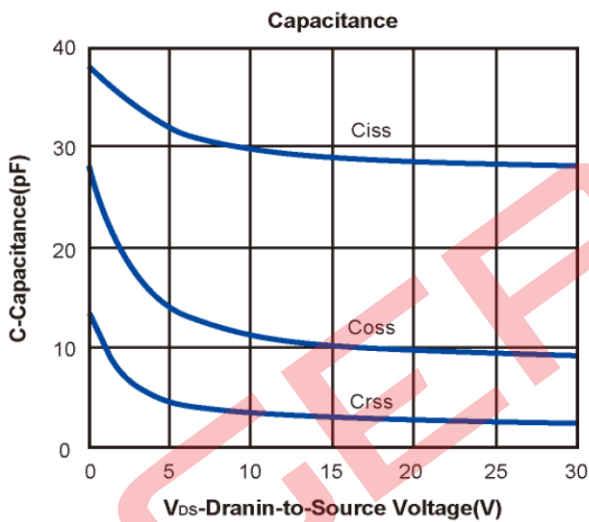
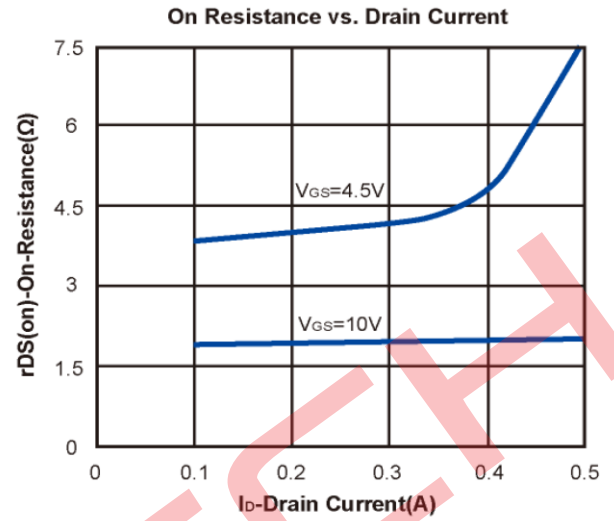
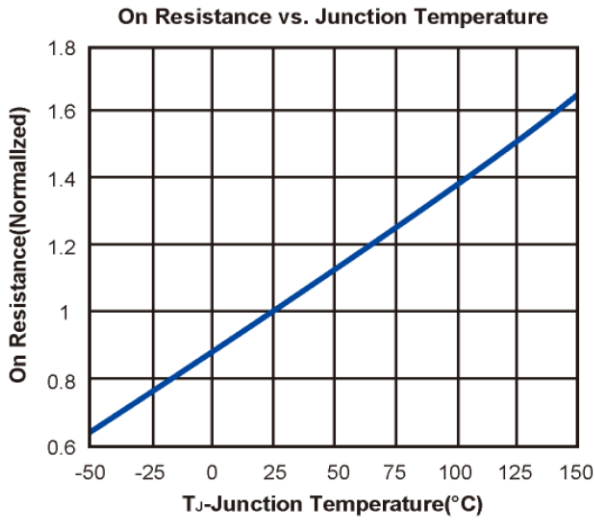
ABSOLUTE MAXIMUM RATINGS (T_a= 25 °C)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	60	V
Gate-Source Voltage	V _{GS}	± 20	V
Drain Current (Continuous)	I _D	300	mA
Drain Current (Pulse Width ≤ 10 μs)	I _{DM}	800	mA
Total Power Dissipation	P _D	350	mW
Operating and Storage Temperature Range	T _J , T _{stg}	- 55 to + 150	°C

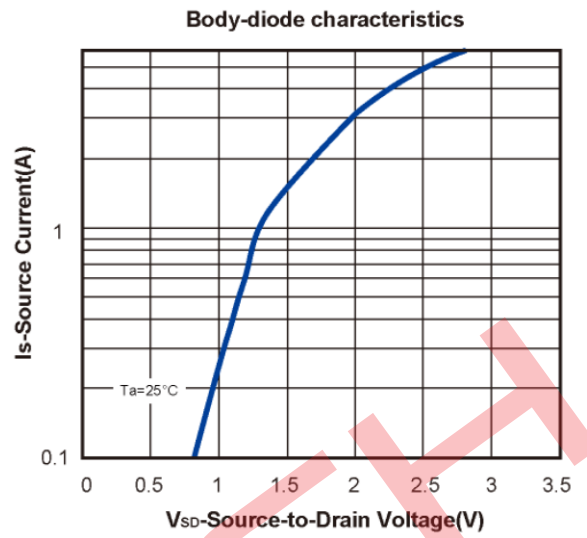
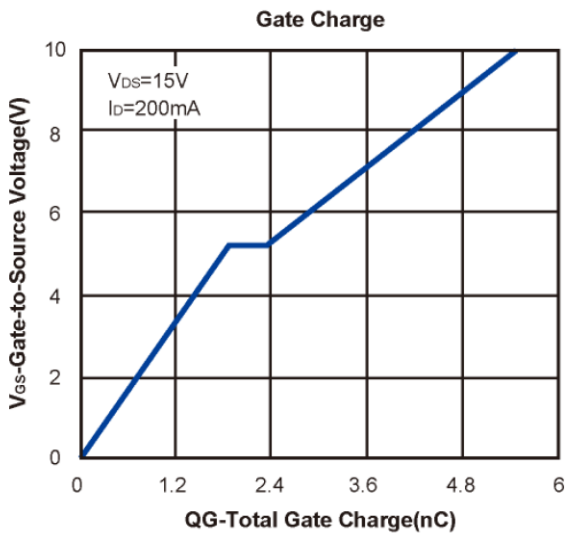
ATM7002KNSA

Electrical characteristics (T_A=25 °C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V, I _D =250μA	60			V
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	1		2.5	V
Gate-Body Leakage	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±10	μA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V, V _{GS} =0V			1	μA
Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =10V, I _D =500mA			3	Ω
		V _{GS} =4.5V, I _D =200mA			4	
		V _{GS} =3V, I _D =10mA			4.5	
Diode Forward Voltage	V _{SD}	I _S =200mA, V _{GS} =0V		0.82	1.3	V
Dynamic characteristics						
Total Gate Charge	Q _g	V _{DS} =15V, V _{GS} =4.5V, I _D =200mA		1.5		nC
Gate-Source Charge	Q _{gs}			1.9		
Gate-Drain Charge	Q _{gd}			0.4		
Input Capacitance	C _{iss}	V _{DS} =25V, V _{GS} =0V, f=1MHz		28		pF
Output Capacitance	C _{oss}			9		
Reverse Transfer Capacitance	C _{rss}			2		
Switching Characteristics						
Turn-On Delay Time	t _{d(on)}	V _{DD} =30V, R _L =150Ω		8.5		ns
Turn-On Rise Time	t _r			6		
Turn-Off Delay Time	t _{d(off)}	I _D =200mA, V _{GEN} =10V, R _G =10Ω		31.8		
Turn-Off Fall Time	t _f			15.5		



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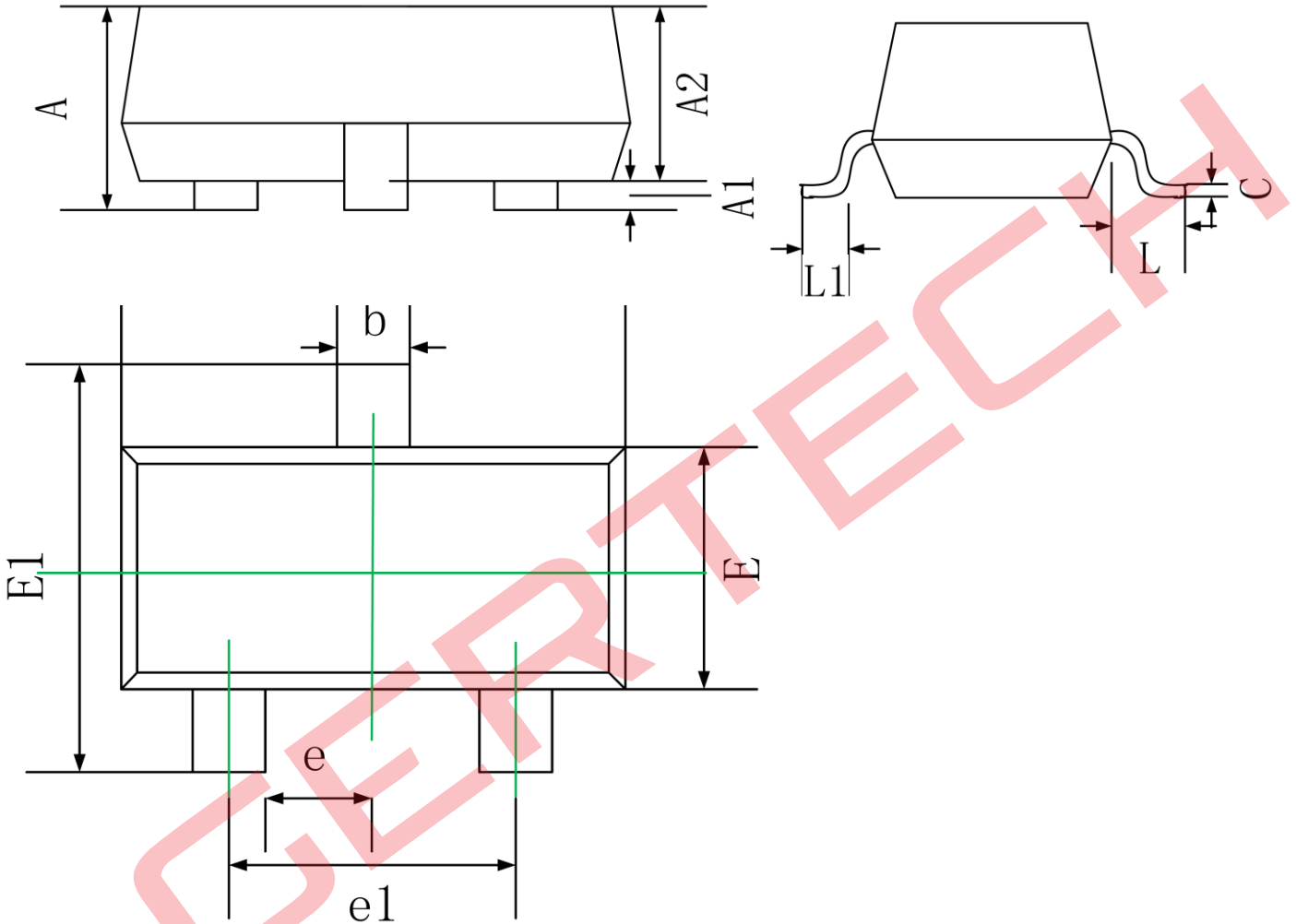
ORDERING INFORMATION

Device	Package	Shipping
ATM7002KNSA	SOT-23	3000/Reel&Tape(7inch)

ATM7002KNSA

PACKAGE OUTLINE

SOT-23 Package Information



Symbol	Dimensions In Millimeters	
	Min.	Max.
A	0.90	1.15
A1	0.00	0.10
A2	0.90	1.05
b	0.30	0.50
c	0.08	0.15
D	2.80	3.00
E	1.20	1.40
E1	2.25	2.55
e	0.95 REF.	
e1	1.80	2.00
L	0.55 REF.	
L1	0.30	0.50

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