

Product Summary

$V_{(BR)DSS}$	$R_{DS(on)MAX}$	I_D
30V	8Ω@4.0V	100mA
	13Ω@2.5V	

Feature

- Advanced trench process technology
- High density cell design for ultra low on-resistance

Application

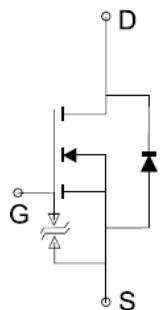
- Load Switch for Portable Devices
- DC/DC Converter

Package

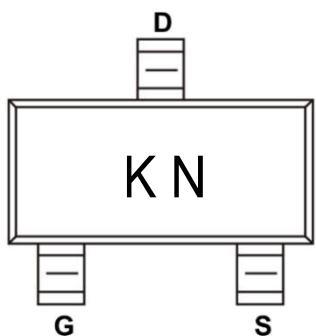


SOT-23

Circuit diagram



Marking



Absolute maximum ratings (Ta=25C° unless otherwise noted)

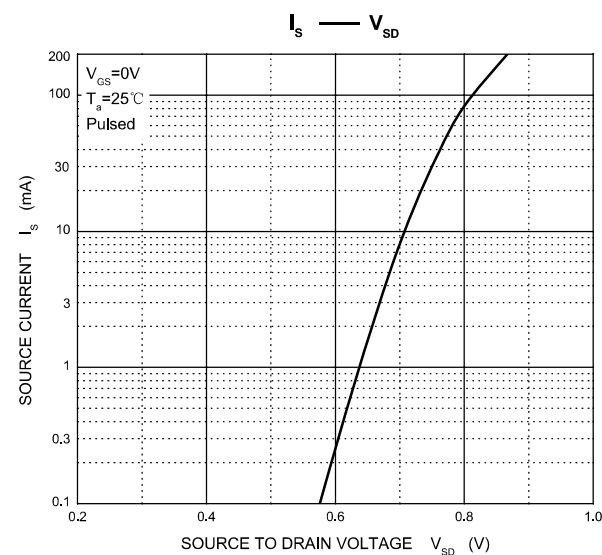
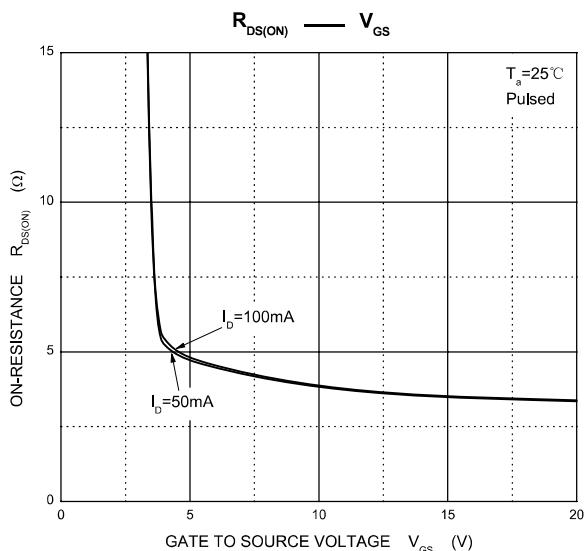
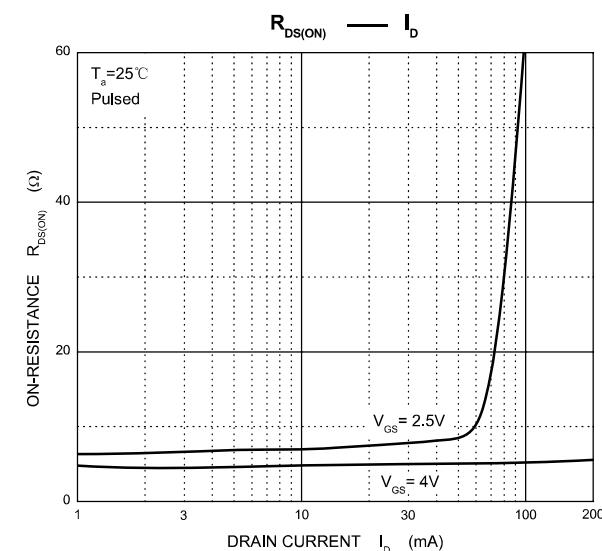
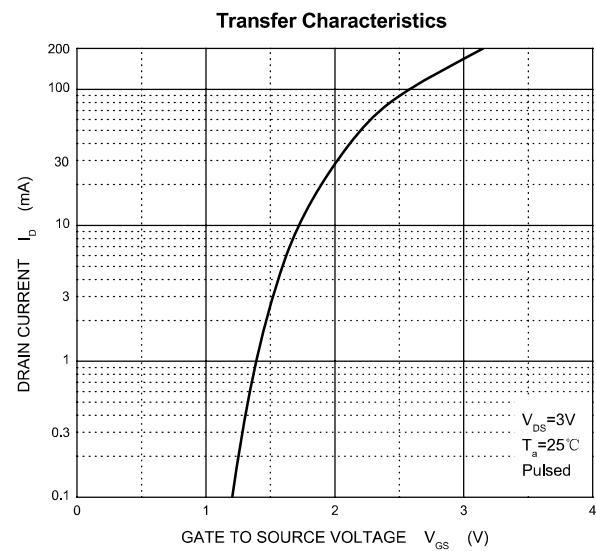
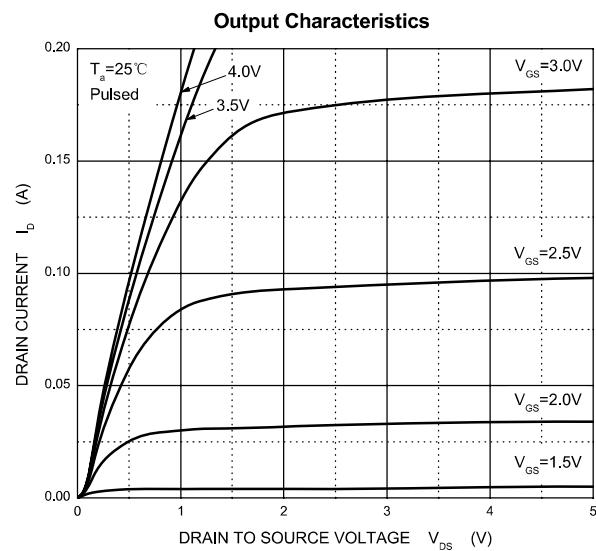
Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	30	V
Gate-Source Voltage	V _{GS}	±20	V
Continuous Drain Current	I _D	0.1	A
Power Dissipation	P _D	0.35	W
Thermal Resistance from Junction to Ambient	R _{θJA}	360	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

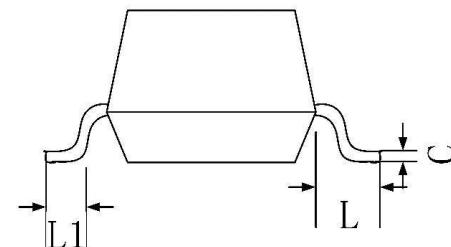
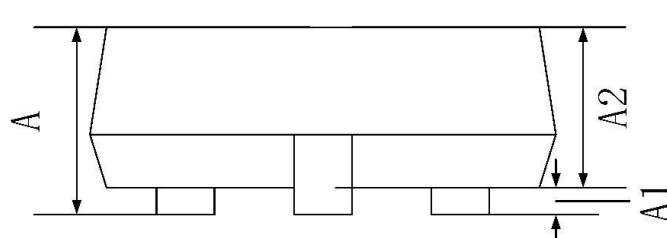
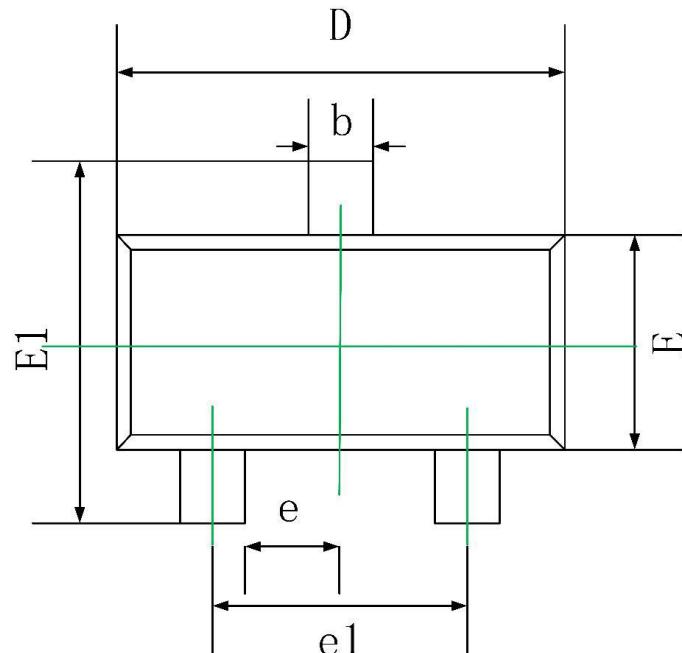
Electrical characteristics (T_A=25 °C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-source breakdown voltage	V _{(BR)DSS}	V _{GS} = 0V, I _D = 10µA	30			V
Zero gate voltage drain current	I _{DSS}	V _{DS} = 30V, V _{GS} = 0V			0.2	µA
Gate-body leakage current	I _{GSS}	V _{GS} = ±20V V _{DS} = 0V			±2	µA
Gate threshold voltage	V _{GS(th)}	V _{DS} = 3V, I _D = 100µA	0.8		1.5	V
Drain-source on-resistance	R _{DS(on)}	V _{GS} = 4.0V, I _D = 10mA			8	Ω
		V _{GS} = 2.5V, I _D = 1mA			13	
Forward transconductance	g _{FS}	V _{DS} = 3V, I _D = 10mA	20			mS
Dynamic characteristics						
Input Capacitance	C _{iss}	V _{DS} = 5V, V _{GS} = 0V, f = 1MHz		13		pF
Output Capacitance	C _{oss}			9		
Reverse Transfer Capacitance	C _{rss}			4		
Turn-on delay time	t _{d(on)}	V _{DD} = 5V, V _{GS} = 5V, I _D = 10mA, R _L = 500Ω, R _{GEN} = 10Ω		15		nS
Turn-on rise time	t _r			35		
Turn-off delay time	t _{d(off)}			80		
Turn-off fall time	t _f			80		
Source-Drain Diode characteristics						
Diode Forward voltage	V _{DS}	V _{GS} = 0V, I _S = 0.1A			1.3	V

*These parameters have no way to verify.

Typical Characteristics



SOT-23 Package Information


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020

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