

P-Channel SMD MOSFET

Product Summary

V _{(BR)DSS}	R _{DS(on)MAX}	l _D
	26mΩ@-4.5V	
-12V	36mΩ@-2.5V	-6.0A
	48mΩ@-1.8V	

Feature

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

Application

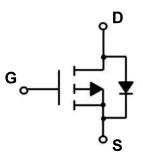
- Load Switch for Portable Devices
- DC/DC Converter

Package

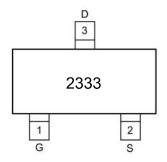


SOT-23

Circuit diagram



Marking





FS2333

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

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	-12	V
Gate-Source Voltage	V_{GS}	±8	V
Continuous Drain Current	I _D	-6.0	А
Pulsed Drain Current	Ірм	-20	А
Power Dissipation	P_{D}	1.25	W
Junction Temperature	TJ	- 55 ~ + 150	$^{\circ}$ C
Storage Temperature	T _{STG}	-55 ~ +150	$^{\circ}\mathbb{C}$

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

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Static Characteristics			•			
Drain-source breakdown voltage	V _{(BR)DSS}	V _{GS} = 0V, I _D =-250μA	-12			V
Zero gate voltage drain current	I _{DSS}	V _{DS} =-12V,V _{GS} = 0V			-1	μA
Gate-body leakage current	I _{GSS}	$V_{GS} = \pm 8V$, $V_{DS} = 0V$			±100	nA
Gate threshold voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-0.4		-1.0	V
Drain-source on-resistance ¹⁾		V _{GS} =-4.5V, I _D =-5.1A		26	35	
	R _{DS(on)}	V _{GS} =-2.5V, I _D =-4.5A		36	45	mΩ
		V _{GS} =-1.8V, I _D =-2.0A		48	60	
Dynamic characteristics ²⁾			•			
Input Capacitance	C _{iss}			1200		pF
Output Capacitance	Coss	V_{DS} =-6V, V_{GS} =0V,f =1MHz		245		
Reverse Transfer Capacitance	C _{rss}			235		
Total Gate Charge	Qg	N 01/1/ 4.51/		15		nC
Gate-Source Charge	Q _{gs}	V _{DS} =-6V,V _{GS} =-4.5V, I _D =-2.8A		2.3		
Gate-Drain Charge	Q_{gd}			3.6		
Turn-on delay time	t _{d(on)}			25		nS
Turn-on rise time	t _r	 V _{DD} =-6V, V _{GEN} =-4.5V,I _D =-4A,		23		
Turn-off delay time	$t_{d(off)}$	$R_{GEN}=1\Omega$		45		
Turn-off fall time	t _f			20		
Source-Drain Diode characteristic	s					
Diode Forward Current ¹⁾	ls				-5.0	Α
Diode Forward voltage	V _{DS}	V _{GS} =0V, I _S =-5.0A			-1.2	V

Notes:

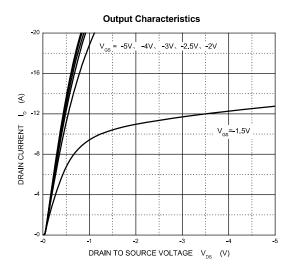
¹⁾ Pulse Test: Pulse Width < 300µs, Duty Cycle ≤2%.

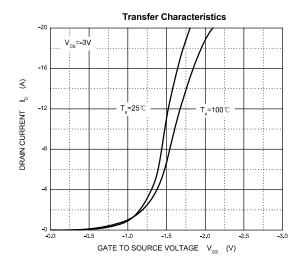
²⁾ Guaranteed by design, not subject to production testing.

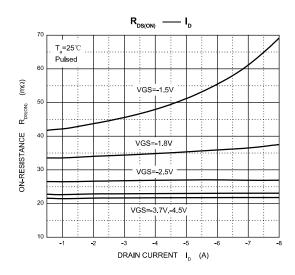


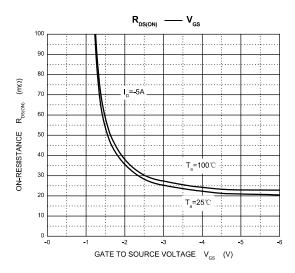
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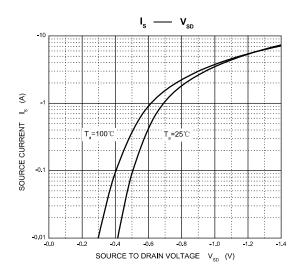
Typical Characteristics

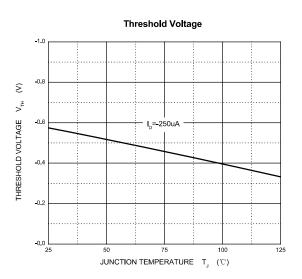








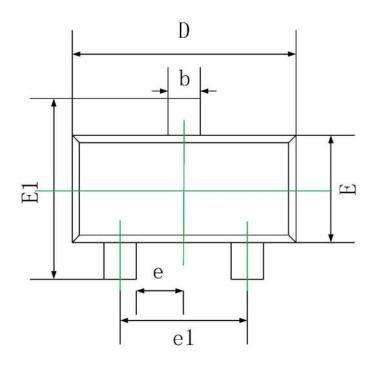


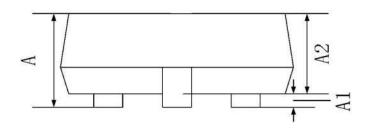


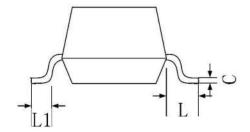


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SOT-23 Package Information







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
А	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	
С	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	
е	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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IPS60R360PFD7SAKMA1 IPS60R600PFD7SAKMA1