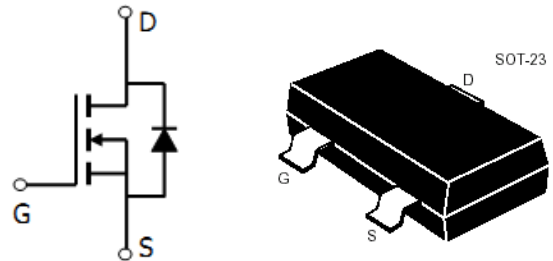


**N-Channel Power MOSFET**

**MAXIMUM RATINGS**

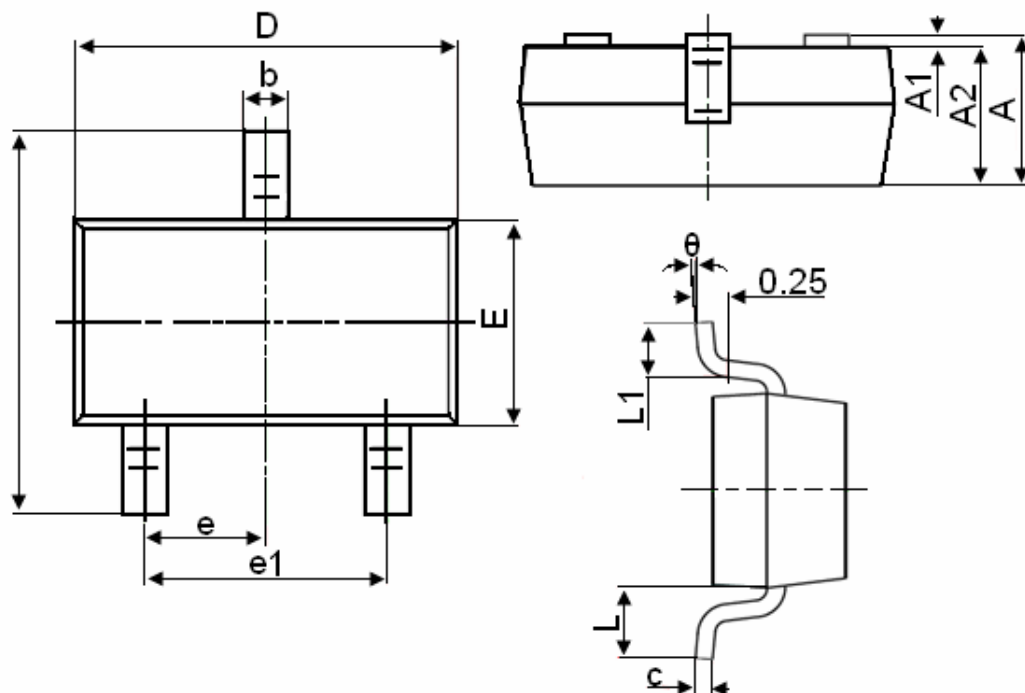
Characteristic	Symbol	Max	Unit
Drain-Source Voltage	$BV_{DSS}$	30	V
Gate- Source Voltage	$V_{GS}$	$\pm 20$	V
Drain Current (continuous)	$I_D$	5	A
Drain Current (pulsed)	$I_{DM}$	18	A
Total Device Dissipation $T_A=25^\circ\text{C}$	$P_D$	1400	mW
Junction	$T_J$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55to+150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

 (T<sub>A</sub>=25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage (I <sub>D</sub> = 250uA, V <sub>GS</sub> = 0V)	BV <sub>DSS</sub>	30	—	—	V
Gate Threshold Voltage (I <sub>D</sub> = 250uA, V <sub>GS</sub> = V <sub>DS</sub> )	V <sub>GS(th)</sub>	1	—	3	V
Diode Forward Voltage Drop (I <sub>S</sub> = 1A, V <sub>GS</sub> = 0V)	V <sub>SD</sub>	—	0.7	1	V
Zero Gate Voltage Drain Current (V <sub>GS</sub> = 0V, V <sub>DS</sub> = 30V)	I <sub>DSS</sub>	—	—	1	uA
Gate Body Leakage (V <sub>GS</sub> = ±20V, V <sub>DS</sub> = 0V)	I <sub>GSS</sub>	—	—	±100	nA
Static Drain-Source On-State Resistance (I <sub>D</sub> = 5A, V <sub>GS</sub> = 10V)	R <sub>DS(ON)</sub>	—	25	28	mΩ
Static Drain-Source On-State Resistance (I <sub>D</sub> = 3A, V <sub>GS</sub> = 4.5V)	R <sub>DS(ON)</sub>	—	40	45	mΩ
Input Capacitance (V <sub>GS</sub> = 0V, V <sub>DS</sub> = 15V, f = 1MHz)	C <sub>ISS</sub>	—	545	—	pF
Output Capacitance (V <sub>GS</sub> = 0V, V <sub>DS</sub> = 15V, f = 1MHz)	C <sub>OSS</sub>	—	66	—	pF
Turn-ON Time (V <sub>DS</sub> = 15V, V <sub>GS</sub> = 10V, R <sub>GEN</sub> = 6Ω)	t <sub>(on)</sub>	—	9.6	—	ns
Turn-OFF Time (V <sub>DS</sub> = 15V, V <sub>GS</sub> = 10V, R <sub>GEN</sub> = 6Ω)	t <sub>(off)</sub>	—	39	—	ns

Pulse Width ≤ 300 μs; Duty Cycle ≤ 2.0%

**SOT-23 Package Information**


Symbol	Dimensions in Millimeters	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
$\theta$	0°	8°

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