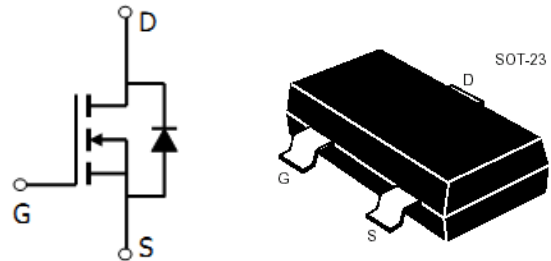




THE DATASHEET OF
SL3404



N-Channel Power MOSFET

MAXIMUM RATINGS

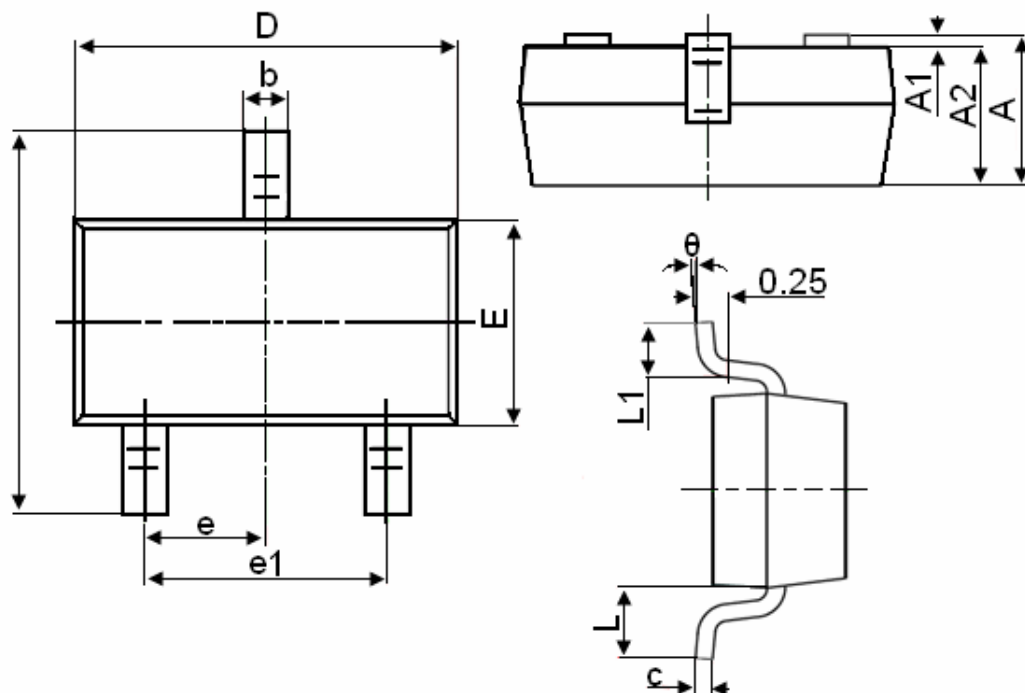
Characteristic	Symbol	Max	Unit
Drain-Source Voltage	BV_{DSS}	30	V
Gate- Source Voltage	V_{GS}	± 20	V
Drain Current (continuous)	I_D	5	A
Drain Current (pulsed)	I_{DM}	18	A
Total Device Dissipation $T_A=25^\circ\text{C}$	P_D	1400	mW
Junction	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55to+150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

ELECTRICAL CHARACTERISTICS

 (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage (I _D = 250uA, V _{GS} = 0V)	BV _{DSS}	30	—	—	V
Gate Threshold Voltage (I _D = 250uA, V _{GS} = V _{DS})	V _{GS(th)}	1	—	3	V
Diode Forward Voltage Drop (I _S = 1A, V _{GS} = 0V)	V _{SD}	—	0.7	1	V
Zero Gate Voltage Drain Current (V _{GS} = 0V, V _{DS} = 30V)	I _{DSS}	—	—	1	uA
Gate Body Leakage (V _{GS} = ±20V, V _{DS} = 0V)	I _{GSS}	—	—	±100	nA
Static Drain-Source On-State Resistance (I _D = 5A, V _{GS} = 10V)	R _{DS(ON)}	—	25	28	mΩ
Static Drain-Source On-State Resistance (I _D = 3A, V _{GS} = 4.5V)	R _{DS(ON)}	—	40	45	mΩ
Input Capacitance (V _{GS} = 0V, V _{DS} = 15V, f = 1MHz)	C _{ISS}	—	545	—	pF
Output Capacitance (V _{GS} = 0V, V _{DS} = 15V, f = 1MHz)	C _{OSS}	—	66	—	pF
Turn-ON Time (V _{DS} = 15V, V _{GS} = 10V, R _{GEN} = 6Ω)	t _(on)	—	9.6	—	ns
Turn-OFF Time (V _{DS} = 15V, V _{GS} = 10V, R _{GEN} = 6Ω)	t _(off)	—	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
θ	0°	8°

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