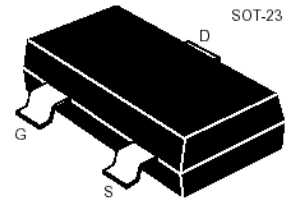


N-Channel Enhancement-Mode MOS FETs

MAXIMUM RATINGS

Characteristic	Symbol	Max	Unit
Drain-Source Voltage	BV_{DSS}	50	V
Gate- Source Voltage	V_{GS}	± 20	V
Drain Current (continuous)	I_{DR}	220	mA
Drain Current (pulsed)	I_{DRM}	880	mA

THERMAL CHARACTERISTICS

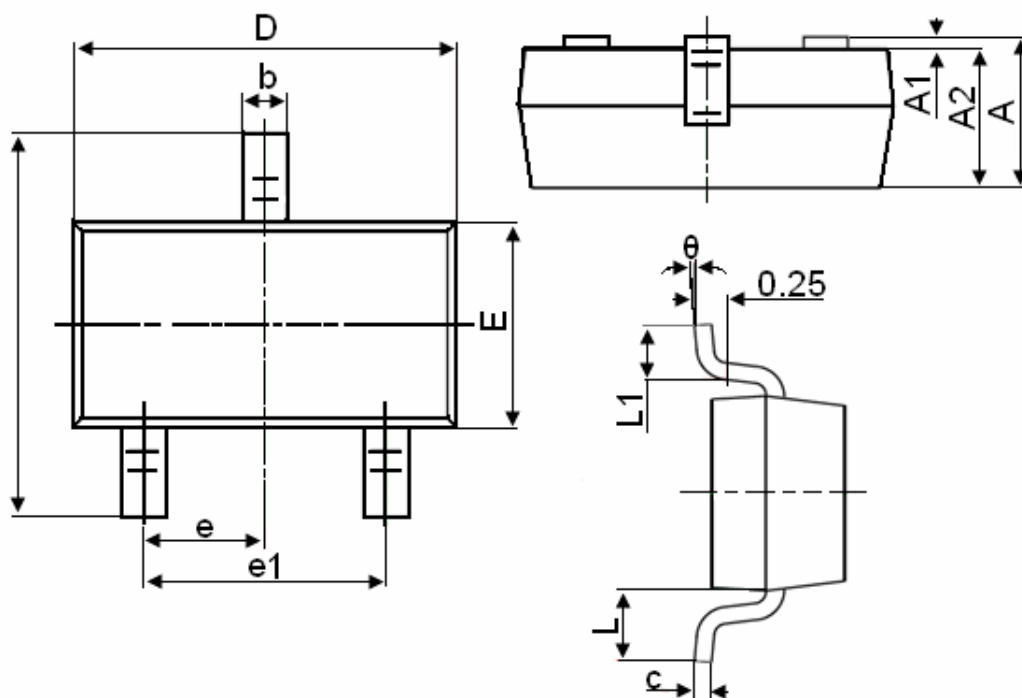
Characteristic	Symbol	Max	Unit
Total Device Dissipation $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	225 1.8	mW mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	350	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature	T_J, T_{stg}	150 $^\circ\text{C}$, -55to+150 $^\circ\text{C}$	

ELECTRICAL CHARACTERISTICS

 ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage ($I_D=250\mu\text{A}, V_{GS}=0\text{V}$)	BV_{DSS}	50	—	—	V
Gate Threshold Voltage ($I_D=1\text{mA}, V_{GS}=V_{DS}$)	$V_{GS(th)}$	0.8	—	1.6	V
Diode Forward Voltage Drop ($I_{SD}=220\text{mA}, V_{GS}=0\text{V}$)	V_{SD}	—	—	1.4	V
Zero Gate Voltage Drain Current ($V_{GS}=0\text{V}, V_{DS}=BV_{DSS}$) ($V_{GS}=0\text{V}, V_{DS}=0.6BV_{DSS}$)	I_{DSS}	—	—	0.5 100	μA nA
Gate Body Leakage ($V_{GS}=\pm 20\text{V}, V_{DS}=0\text{V}$)	I_{GSS}	—	—	± 100	nA
Static Drain-Source On-State Resistance ($I_D=220\text{mA}, V_{GS}=10\text{V}$) ($I_D=220\text{mA}, V_{GS}=4.5\text{V}$)	$R_{DS(ON)}$	—	—	3.5 6	Ω
Input Capacitance ($V_{GS}=0\text{V}, V_{DS}=25\text{V}, f=1\text{MHz}$)	C_{ISS}	—	—	50	pF
Common Source Output Capacitance ($V_{GS}=0\text{V}, V_{DS}=25\text{V}, f=1\text{MHz}$)	C_{OSS}	—	—	25	pF
Turn-ON Time ($V_{DS}=30\text{V}, I_D=200\text{mA}, R_{GEN}=25\Omega$)	$t_{(on)}$	—	—	20	ns
Turn-OFF Time ($V_{DS}=30\text{V}, I_D=200\text{mA}, R_{GEN}=25\Omega$)	$t_{(off)}$	—	—	20	ns

1. FR-5=1.0×0.75×0.062in.
2. Alumina=0.4×0.3×0.024in.99.5%alumina.
3. 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°

单击下面可查看定价，库存，交付和生命周期等信息

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