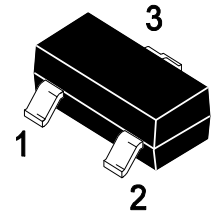
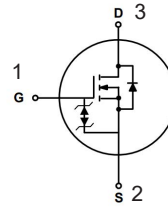


## N-Channel Enhancement Mode MOSFET

### Feature

- Super High dense cell design for extremely low  $R_{DS(ON)}$ .
- Reliable and Rugged.
- Low Threshold Voltage (1.5V—2.5 V) Make it Ideal for Low Voltage Applications.
- ESD protected.
- SOT-323 for Surface Mount Package.



### Applications

- Power Management in DC/DC Converters
- Portable and Battery-powered Products.

### Absolute Maximum Ratings

$T_A=25^\circ\text{C}$

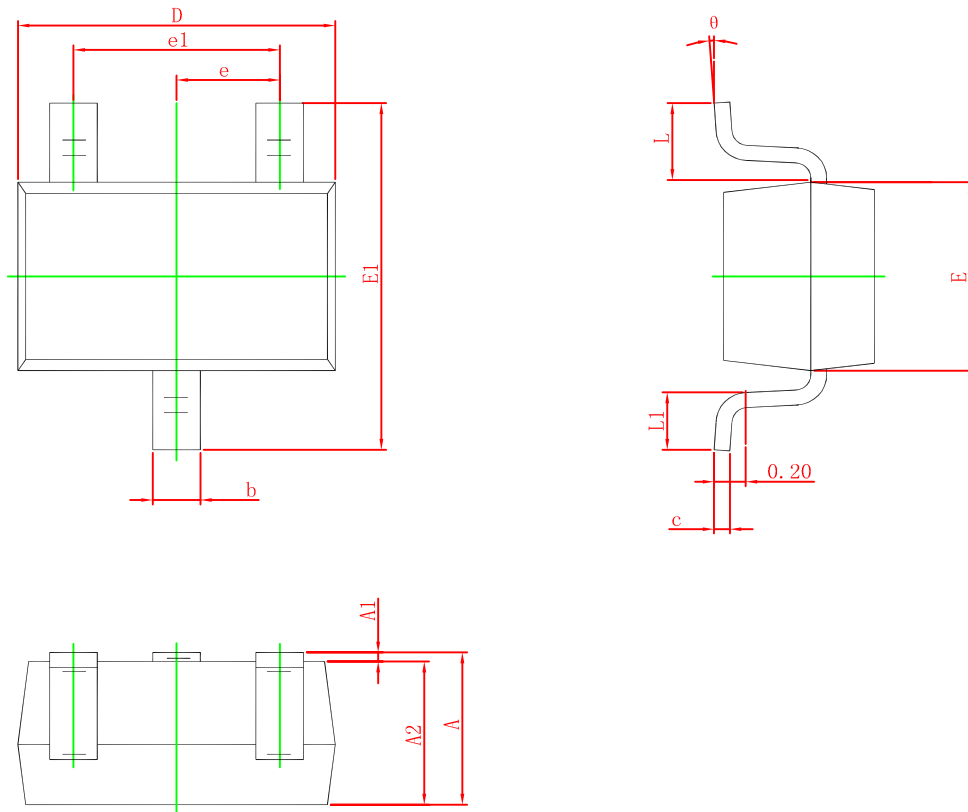
Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	$V_{DS}$	100	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Drain Current-Continuous	$I_D$	0.17	A

### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ Unless Otherwise Noted )

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Static Characteristics						
$BV_{DSS}$	Drain-Source Breakdown Voltage	$V_{GS} = 0\text{ V}, I_{DS} = 250\ \mu\text{A}$	100	-	-	V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS} = V_{GS}, I_{DS} = 250\ \mu\text{A}$	1.5	2.0	2.5	V
$I_{DSS}$	Drain Leakage Current	$V_{DS} = 80\text{ V}, V_{GS} = 0\text{ V}$	-	-	1	$\mu\text{A}$
		$T_J = 85^\circ\text{C}$	-	-	30	$\mu\text{A}$
$I_{GSS}$	Gate Leakage Current	$V_{GS} = \pm 20\text{ V}, V_{DS} = 0\text{ V}$	-	-	$\pm 10$	$\mu\text{A}$
$R_{DS(ON)}^a$	On-State Resistance	$V_{GS} = 10\text{ V}, I_{DS} = 0.25\text{ A}$	-	3.5	6	$\Omega$
		$V_{GS} = 4.5\text{ V}, I_{DS} = 0.2\text{ A}$	-	4.5	9	
Diode Characteristics						
$V_{SD}$	Diode Forward Voltage	$I_{SD} = 0.4\text{ A}, V_{GS} = 0\text{ V}$	-	0.91	1.3	V

## SOT-323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP.		0.026 TYP.	
e1	1.200	1.400	0.047	0.055
L	0.525 REF.		0.021 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

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