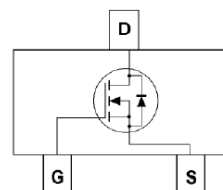


## N-Channel Enhancement Mode MOSFET

### Feature

- 30V/1A,  $R_{DS(ON)} = 750\text{m}\Omega$  (MAX) @  $V_{GS} = 10\text{V}$ ,  $I_{DS} = 0.60\text{A}$   
 $R_{DS(ON)} = 900\text{m}\Omega$  (MAX) @  $V_{GS} = 4.5\text{V}$ ,  $I_{DS} = 0.20\text{A}$
- Super High dense cell design for extremely low  $R_{DS(ON)}$ .
- Reliable and Rugged.
- SOT-23 for Surface Mount Package.



### Absolute Maximum Ratings $T_A=25^\circ\text{C}$ Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	$V_{DS}$	30	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Drain Current-Continuous	$I_D$	1	A

### Electrical Characteristics $T_A=25^\circ\text{C}$ Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
<b>Off Characteristics</b>						
Drain to Source Breakdown Voltage	BVDSS	$V_{GS}=0\text{V}$ , $I_D=250\mu\text{A}$	30	-	-	V
Zero-Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=24\text{V}$ , $V_{GS}=0\text{V}$	-	-	1	$\mu\text{A}$
Gate Body Leakage Current, Forward	$I_{GSSF}$	$V_{GS}=20\text{V}$ , $V_{DS}=0\text{V}$	-	-	100	nA
Gate Body Leakage Current, Reverse	$I_{GSSR}$	$V_{GS}=-20\text{V}$ , $V_{DS}=0\text{V}$	-	-	-100	nA
<b>On Characteristics</b>						
Gate Threshold Voltage	$V_{GS(th)}$	$V_{GS}=V_{DS}$ , $I_D=250\mu\text{A}$	1	-	-	V
Static Drain-source On-Resistance	$R_{DS(ON)}$	$V_{GS}=10\text{V}$ , $I_D=0.6\text{A}$	-	-	750	$\text{m}\Omega$
		$V_{GS}=4.5\text{V}$ , $I_D=0.2\text{A}$	-	-	900	$\text{m}\Omega$
<b>Drain-Source Diode Characteristics and Maximum Ratings</b>						
Drain-Source Diode Forward Voltage	VSD	$V_{GS}=0\text{V}$ , $I_S=0.23\text{A}$			1.2	V

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