

P-Channel Enhancement Mode MOSFET

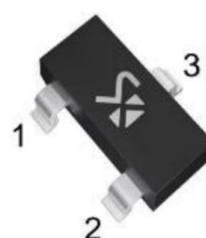
Features

- $R_{DS(ON)}@-10V < 55m\Omega(Max)$
- $R_{DS(ON)}@-4.5V < 75m\Omega(Max)$
- Super high dense cell design for extremely low $R_{DS(ON)}$
- Reliable and Rugged
- SOT-23 for Surface Mount Package

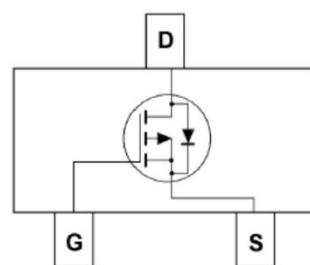
$BV_{DSS}, T_A=25^{\circ}C$	$R_{DS(ON),Max}@4.5V$	$I_D, T_A=25^{\circ}C$
-30V	75mΩ	-4.1A

Applications

- Power Management
- Portable Equipment and Battery Powered Systems



SOT-23



Absolute Maximum Ratings

$T_A=25^{\circ}C$, unless otherwise noted.

Parameter	Symbol	Limit	Unit
Drain-source Voltage	V_{DS}	-30	V
Gate-source Voltage	V_{GS}	± 20	V
Drain Current-Continuous	I_D	-4.1	A
Junction Temperature Range	T_J	-50~+150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-50~+150	$^{\circ}C$

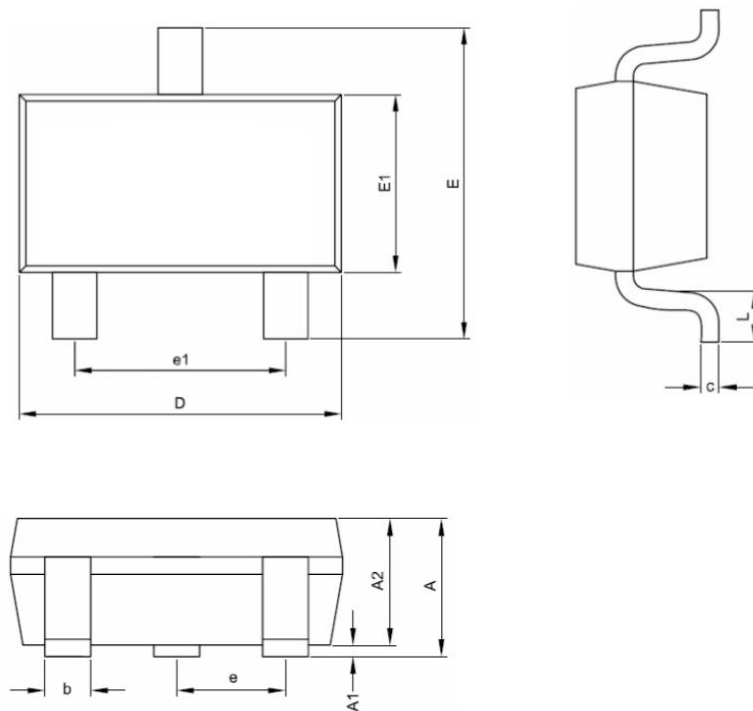
Electrical Characteristics($T_A=25^{\circ}C$, unless otherwise noted.)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Off Characteristics						
Drain-source breakdown voltage	BV _{DSS}	V _{GS} =0V,I _D =-250μA	-30			V
Drain-source leakage current	I _{DSS}	V _{DS} =-30V,V _{GS} =0V			-1	μA
Gate-source leakage current	I _{GSS}	V _{DS} =0V,V _{GS} =±20V			±100	nA
On Characteristics						
Gate Threshold voltage	V _{GS(th)}	V _{DS} =V _{GS} ,I _D =-250μA	-1.0		-2.4	V
Drain-source on resistance	R _{DS(on)}	V _{GS} =-10V,I _D =-4.2A			55	mΩ
		V _{GS} =-4.5V,I _D =-4A			75	mΩ
Drain-Source Diode Characteristics						
Diode Forward Voltage	V _{SD}	V _{GS} =0V,I _D =-1A			-1.0	V

Package Information

SOT-23

Dimensions in mm



Symbol	Dimensions In Millimeters	
	MIN	MAX
A	-	1.12
A1	0.00	0.10
A2	0.60	1.02
D	2.90 BSC	
E	2.40 BSC	
E1	1.20	1.40
c	0.08	0.25
b	0.30	0.50
e	0.95 BSC	
e1	1.90 BSC	
L	0.20	0.60

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