DMP3098L

P-Channel Enhancement Mode MOSFET

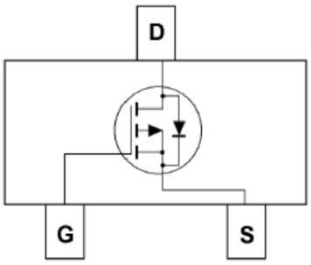
BV_{DSS},T_A=25℃	$R_{DS(ON)}$,Max@4.5V	I_D,T_A=25℃
-30V	75mΩ	-4.1A

Features

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



SOT-23



Applications

- Power Management
- Portable Equipment and Battery Powered Systems

Absolute Maximum Ratings

T_A=25℃,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	℃
Storage Temperature Range	T_{STG}	-50~+150	℃

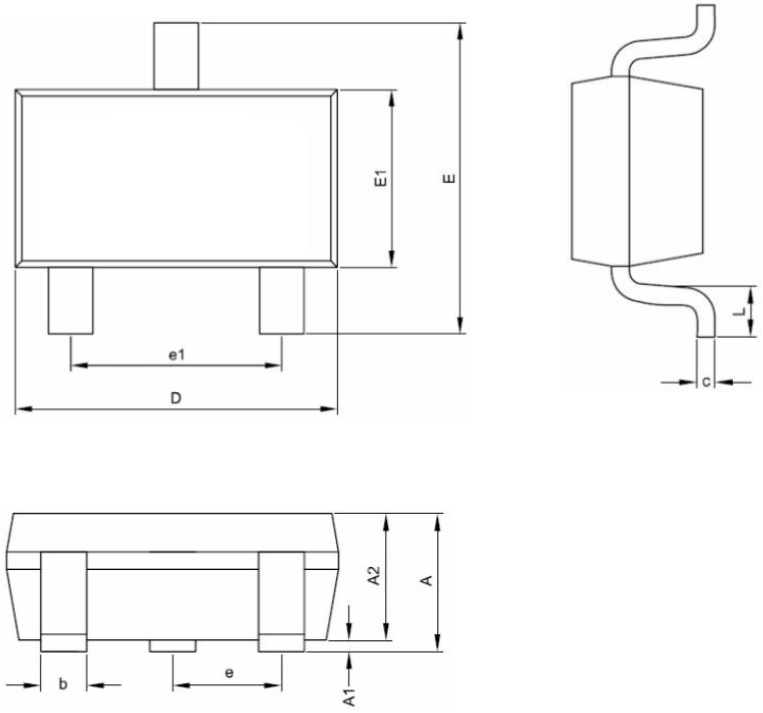
Electrical Characteristics(T_A=25℃,unless otherwise noted.)

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	Dimensisons 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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