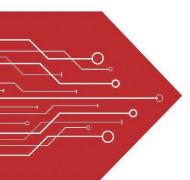
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com

MOSFET Product Summary

V _{DS}	I _D	R _{DS(on)}	
20V	0.8A	<350mΩ@4.5V	
		<420mΩ@2.5V	

Features and benefits

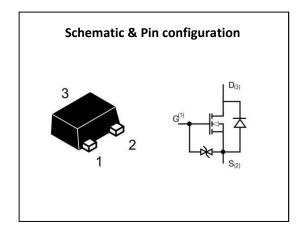
- Lead Free Product is Acquired
- Surface Mount Package
- N-Channel Switch with Low RDS(on)
- Operated at Low Logic Level Gate Drive

Applications

- Load/Power Switching
- Interfacing Switching
- Battery Management for Ultra Small Portable Electronics
- Logic Level Shift



Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	20	V
Gate-Source Voltage	V _{GS}	±8	V
Continuous Drain Current (note1)	I _D	0.8	А
Pulsed Drain Current (tp=10-s)	I _{DM}	1.8	Α
Power Dissipation (note1)	P _D	0.15	W
Thermal Resistance from Junction to Ambient (note1)	Reja	850	°C/W
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-50 to +150	°C
Lead Temperature for Soldering Purposes (1/8" from case for 10 s)	T∟	260	°C



Electrical Characteristics (T_A = 25 °C, unless otherwise specified)

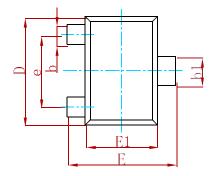
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
STATIC CHARACTERISTICE			'			
Drain-source breakdown voltage	V _{(BR)DSS}	V _{GS} = 0V, I _D =250μA	20			V
Zero gate voltage drain current	I _{DSS}	V _{DS} =20V,V _{GS} = 0V			1	μA
Gate-body leakage current	I _{GSS}	V _{GS} =±8V, V _{DS} = 0V			±10	μΑ
Gate threshold voltage (note2)	V _{GS(th)}	V _{DS} =VGS, I _D =250μA	0.5	0.7	1.0	V
.	R _{DS(on)}	V _{GS} =4.5V, I _D =0.5A			0.35	Ω
Drain-source on-resistance (note2)		V _{GS} =2.5V, I _D =0.5A			0.42	Ω
Maximum Continuous Drain to Source Diode Forward Current	Is				0.8	Α
Maximum Pulsed Drain to Source Diode Forward Current	I _{SM}				1.2	Α
Diode forward voltage	V _{SD}	I _S =0.5A, V _{GS} =0V			1.2	V
DYNAMIC CHARACTERISTICS (note4)	I					
Input capacitance	C _{iss}				120	pF
Output capacitance	Coss	V _{DS} =16V,V _{GS} =0V, f =1MHz			20	pF
Reverse transfer capacitance	C _{rss}	<u>-</u>			15	pF
SWITCHING CHARACTERISTICS (no	te4)		'			l.
Turn-on delay time (note3)	t _{d(on)}			8		nS
Turn-on rise time (note3)	t _r	V _{GS} =4.5V,V _{DS} =10V,		5		nS
Turn-off delay time (note3)	t _{d(off)}	I_D =500mA, R_{GEN} =10 Ω		20		nS
Turn-off fall time (note3)	t _f			10		nS

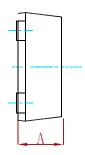
Notes:

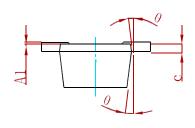
- 1. Surface mounted on FR4 board using the minimum recommended pad size.
- 2. Pulse Test: Pulse Width=300 μ s, Duty Cycle=2%.
- 3. Switching characteristics are independent of operating junction temperatures.
- 4. Guaranteed by design, not subject to producting.



PACKAGE MECHANICAL DATA

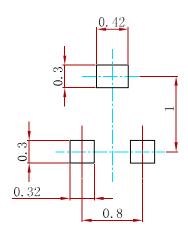






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
A	0.430	0.500	0.017	0.020	
A1	0.000	0.050	0.000	0.002	
b	0.170	0.270	0.007	0.011	
b1	0.270	0.370	0.011	0.015	
С	0.080	0.150	0.003	0.006	
D	1.150	1.250	0.045	0.049	
E	1.150	1.250	0.045	0.049	
E1	0.750	0.850	0.030	0.033	
е	0.800TYP.		0.031	ITYP.	
θ	7° REF.		7° F	REF.	

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MS3134	SOT-723	8000



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