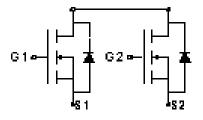
20V, 30mΩ, Dual N-channel MOSFET

1. Features

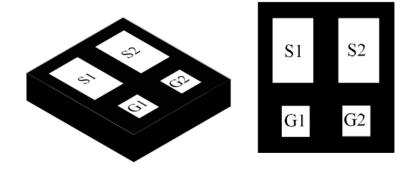
- 20V MOSFET technology
- Low on-state resistance
- Vgs±10V



Schematic

2. Applications

 Lithium-ion battery charging and discharging switch



Product Diagram

3. Shipment Information

Operating Junction Temperature Range	Package Order Type		Seal	
-55°C ~ +150°C	CSDFN	2030F	2030F	

4. Absolute max Ratings(TJ = 25°C unless otherwise noted)

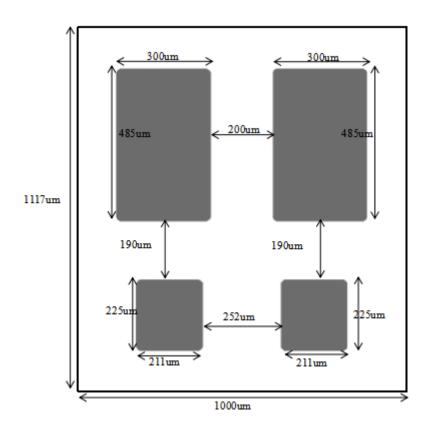
Parameter	Symbol	Maximum	Units	
Source to Source Voltage	V _{SSS}	20	V	
Gate to Source Voltage	V _{GS}	±10	V	
Source Current (DC)(V _{GS} =4.5V, @T _a =25°C)	Is	6	Α	
Source Current (DC)(V _{GS} =4.5V, @T _a =70°C)	Is	4.8	А	
Source Current (Pulse)	la-	20	A	
PW ≤10 μ s, duty cycle≤1%	Isp	20	A	
Junction Temperature	Tj	-55 ~ +150	°C	
Storage Temperature	T_{stg}	-55 ~ +150	°C	

5. Electrical characteristics(TJ = 25°C unless otherwise noted)

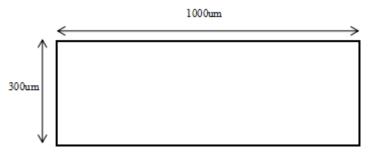
Parameter	Symbol	Test conditions	Min.	Тур.	Max.	Units
Source to Source Breakdown Voltage	B _(BR) sss	V _{GS} = 0, I _D = 250μA	20	20.5		V
Zero-Gate Voltage	I _{SSS}	$V_{DS} = 16V, V_{GS} = 0$	_	_	1	μΑ
Source Current	1333	V DS - 10V, V GS - 0	-	_	'	μΛ
Gate to Source		$V_{GS} = \pm 10V, V_{DS} = 0$	-	-	±1	uA
Leakage Current	I _{GSS}					
Temperature		Point of reference				
Coefficient of	$\triangle B_{(BR)SSS}$	25°C	-	0.03	-	V/°C
Breakdown Voltage	/∆T _j	I _D =1mA				
Gate Threshold	.,	$V_{DS} = V_{GS}, I_D =$	0.4	0.05	4.0	
Voltage	V _{GS(th)}	250µA	0.4	0.65	1.0	V
Static Source to	Static Source to	V _{GS} = 4.5V,I _D = 6A	-	30	40	mΩ
Source On-State Resistance	R _{SS(ON)}	VGS=3.8V, I _D = 3A		33	48	mΩ
		V _{GS} = 2.5V,I _D = 3A		43	65	mΩ

Parameter	Symbol	Test conditions	Min.	Тур.	Max.	Units
Forward	g _{fs}	V _{DS} = 5V, I _D = 4.5A	-	10	-	S
Transconductance						
Forward Source to	VF _(S-S)	I _S =1.0A, V _{GS} =0V		0.72	1.2	V
Source Voltage		T _j =25°C	-			

6. Package Dimensions (Thickness: 300um)



Bottom View



Side View

Attention

The information herein is given to describe certain components and shall not be considered as warranted characteristics.

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