

INCHANGE SEMICONDUCTOR

Isc P-Channel MOSFET Transistor

IRLML6302

FEATURES

- With SOT-23 package
- · Low input capacitance and gate charge
- · Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

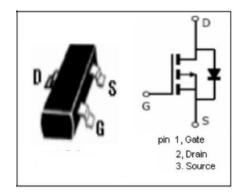
APPLICATIONS

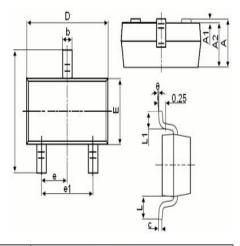
Switching applications

• ABSO			
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	-20	V
V _{GSS}	Gate-Source Voltage	±12	V
ID	Drain Current-ContinuousTc=25℃ Tc=70℃	-0.78 -0.26	99A
I _{DM}	Drain Current-Single Pulsed	-4.9	А
PD	Total Dissipation @T _c =25°C	540	mW
T_{ch}	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS					
SYMBOL	PARAMETER	МАХ	UNIT		
Rth(ch-a)	Channel-to-ambient thermal resistance	230	°C/W		

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0 miles	Din	ensions in Millimeters	
Symbol	MIN.	MAX.	
A	0.900	1.150	
A1	0.000	0.100	
A2	0.900	1.050	
b	0.300	0.500	
с	0.080	0.150	
D	2.800	3.000	
E	1.200	1.400	
E1	2.250	2.550	
е	21	0.950TYP	
e1	1.800	2.000	
L		0.550REF	
L1	0.300	0.500	
θ	0°	8°	

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ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^\circ\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =-0.25mA	-20			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =-0.25mA	-0.7		-1.5	v
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = -4.5V; I _D =-0.61A			600	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±12V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =-16V; V _{GS} = 0V;Tj=25℃ V _{DS} =-16V; V _{GS} = 0V;Tj=150℃			-1 -25	μA
V _{SDF}	Diode forward voltage	I _{SD} =-0.61A, V _{GS} = 0V			-1.2	V



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