

isc N-Channel MOSFET Transistor

IRLR3636, IIRLR3636

FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤6.8mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

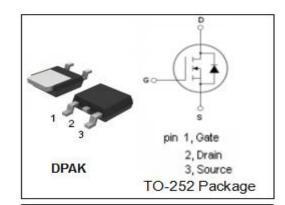
· High Speed Power Switching

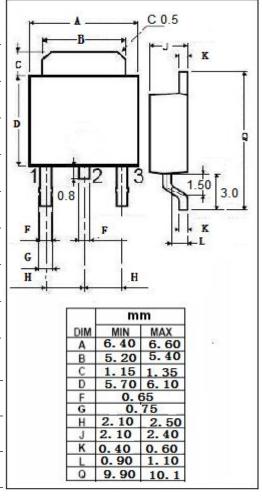
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage	±16	V	
ΙD	Drain Current-Continuous	99	А	
I _{DM}	Drain Current-Single Pulsed 396		А	
P _D	Total Dissipation @T _C =25°C	tal Dissipation @T _C =25°C 143		
Tj	Max. Operating Junction Temperature 175		$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.05	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	110	°C/W







isc N-Channel MOSFET Transistor

IRLR3636, IIRLR3636

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	60			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =100 μ A	1		2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =50A			6.8	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±16V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	I _s =50A, V _{GS} = 0V			1.3	V

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.