

iscN-Channel MOSFET Transistor

• FEATURES

- Low drain-source on-resistance: RDs(ON) \leq 1.1 Ω @V_{GS}=10V
- Enhancement mode: Vth = 2.0 to 4.0V (Vps = 10 V, Ip=0.25mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

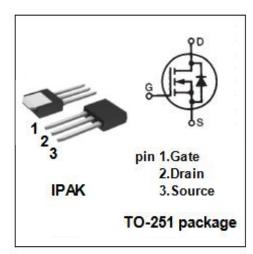
· Switching Voltage Regulators

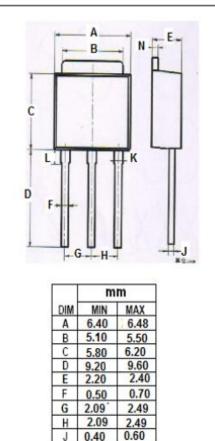
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _{GS}	Gate-Source Voltage	±20	V
l _D	Drain Current-Continuous	А	
Ірм	Drain Current-Single Pulsed 15		А
P_{D}	Total Dissipation @T _C =25 °C 42		W
Tj	Max. Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature -55~150		${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.0	°C/W





0.70

0.40 0.60

0.90



iscN-Channel MOSFET Transistor

IRFU224

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	250			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.3A			1.1	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =250V; V _{GS} = 0V V _{DS} =200V; V _{GS} = 0V;T _J =125°C			25 250	uA
V _{SDF}	Diode forward voltage	I _{DR} =3.8A, V _{GS} = 0 V			1.8	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.