

isc N-Channel MOSFET Transistor

IRLR2705, IIRLR2705

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤40mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

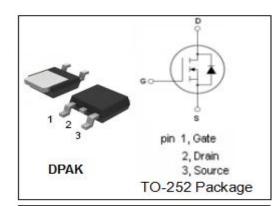
· Fast Switching

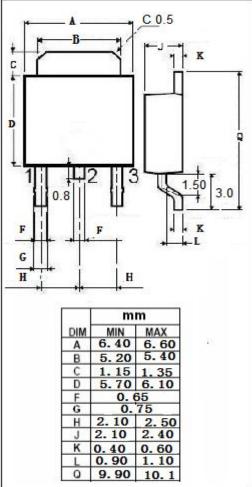
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABSOLUTE MAXIMUM NATINGS(18-25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	55	V				
V _{GS}	Gate-Source Voltage	±16	V				
ID	Drain Current-Continuous 28		А				
I _{DM}	Drain Current-Single Pulsed	110	А				
P _D	Total Dissipation @T _C =25°C	68	W				
Tj	Max. Operating Junction Temperature	n Temperature 175					
T _{stg}	Storage Temperature -55		$^{\circ}$				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	2.2	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	110	°C/W







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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	55			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =250 μ A	1		2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =17A			40	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±16V			±0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =55V; V _{GS} = 0V			25	μ А
V _{SD}	Diode forward voltage	I _s =17A, V _{GS} = 0V			1.3	V

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