

isc N-Channel MOSFET Transistor

IRFR2407, IIRFR2407

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤26mΩ
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

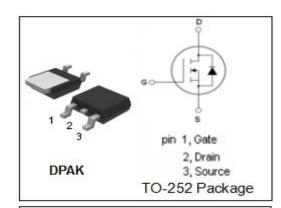
· Fast switching

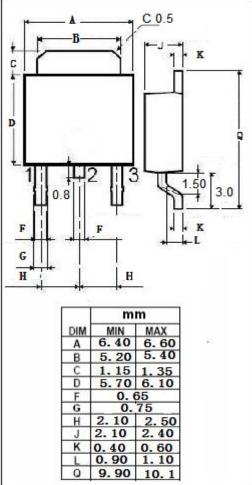
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ADSOLUTE MAXIMUM NATINGS(18-25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	75	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	А					
I _{DM}	Drain Current-Single Pulsed	170	А				
P _D	Total Dissipation @T _C =25°C	110	W				
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C				
T _{stg}	Storage Temperature	-55~175 °C					

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.4	°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	75			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	VDS=VGS; I _D =250 μ A	2		4	V
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =25A			26	$m\Omega$
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.2	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =75V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	I _s =25A, V _{GS} = 0V			1.3	V

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