

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IRF40R207, IIRF40R207



- Static drain-source on-resistance: R_Ds(on)≤5.1mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

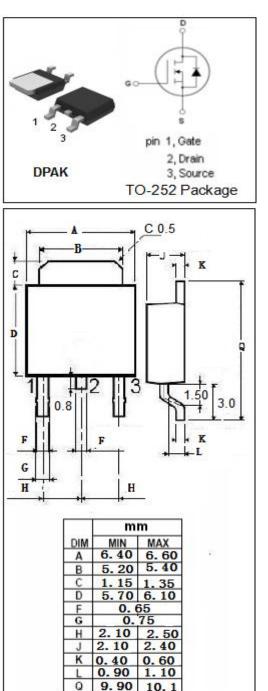
Synchronous rectifier applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	40	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	90	A				
I _{DM}	Drain Current-Single Pulsed 33		A				
PD	Total Dissipation @Tc=25°C	83	W				
Tj	Max. Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature	-55~175 ℃					

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.8	°C /W
Rth(j-a) Channel-to-ambient thermal resistance		110	°C/W





isc N-Channel MOSFET Transistor IRF40R2

IRF40R207, IIRF40R207

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	40			V
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; ID=59 ⊭ A	2.2		3.9	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =55A			5.1	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =40V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _s =55A, V _{GS} = 0V			1.3	V

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