

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IRF60R217, IIRF60R217

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \leqslant 9.9 m_{\Omega}$
- 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)

ABSOLUTE MAXIMUM KATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	60	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	58	A				
I _{DM}	Drain Current-Single Pulsed	217	A				
PD	Total Dissipation @T _c =25°C	83	W				
Tj	Max. Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature	-55~175	°C				

PARAMETER

Channel-to-case thermal resistance

Channel-to-ambient thermal resistance

MAX

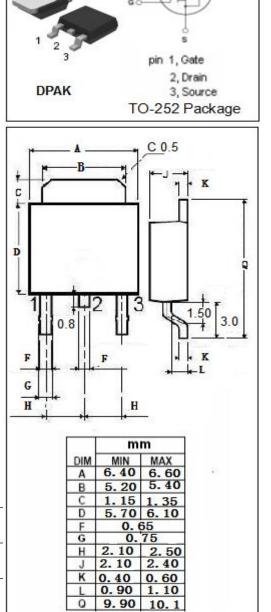
1.8

110

UNIT

°C/W

°C/W



THERMAL CHARACTERISTICS

SYMBOL

Rth(j-c)

Rth(j-a)



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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	60			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; ID=85 µ A	2.1		3.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =35A			9.9	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			1	μ Α
V _{SD}	Diode forward voltage	I _S =35A, V _{GS} = 0V			1.2	V

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