

# isc P-Channel MOSFET Transistor

## IRF9Z34N,IIRF9Z34N

#### • FEATURES

- Static drain-source on-resistance:  $R_{DS}(on) \leq 0.1 \Omega$
- · Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### DESCRIPTION

• Combine with the fast switching speed and ruggedized device design, provide the designer with an extremely efficient and reliable device for use in a wide variety of applications.

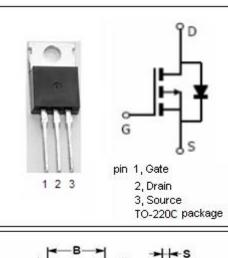
• ABSOLUTE MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V <sub>DSS</sub>	Drain-Source Voltage	-55	V				
V <sub>GS</sub>	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	-19	А				
I <sub>DM</sub>	Drain Current-Single Pulsed	-68	А				
P <sub>D</sub>	Total Dissipation @T <sub>c</sub> =25°C	68	W				
Tj	Max. Operating Junction Temperature	175	°C				
T <sub>stg</sub>	Storage Temperature	-55~175	°C				

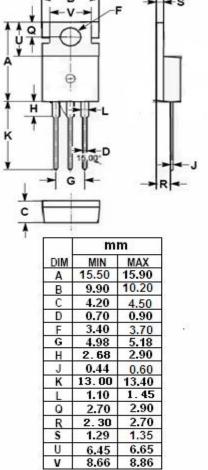
### • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	2.2	°C/W	
Rth(j-a)	Channel-to-ambient thermal resistance	62	°C/W	

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#### isc website: www.iscsemi.cn



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#### ELECTRICAL CHARACTERISTICS

T<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> = -250 μ A	-55			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	VDS=VGS; I <sub>D</sub> = -250 µ A	-2.0		-4.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = -10V; I <sub>D</sub> = -10A			0.1	Ω
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±20V			±100	nA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = -55V; V <sub>GS</sub> = 0V			-25	μ Α
V <sub>SD</sub>	Diode forward voltage	Is= -10A; V <sub>GS</sub> = 0V			-1.6	V

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