

# isc P-Channel MOSFET Transistor

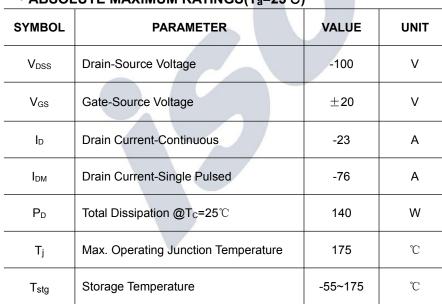
## IRFP9140N, IIRFP9140N

### FEATURES

- · Static drain-source on-resistance: Ros(on)≤0.117Ω
- · 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.

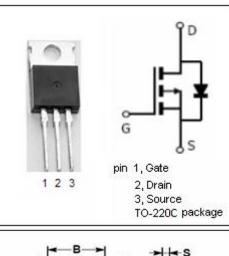


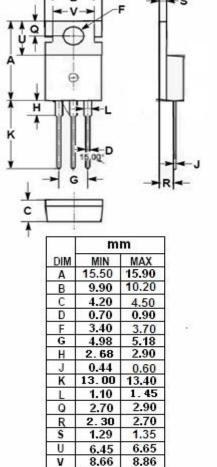
## • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	1.1	°C <b>/W</b>	
Rth(j-a)	Channel-to-ambient thermal resistance	40	°C/W	

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## IRFP9140N, IIRFP9140N

### **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	-100			v
V <sub>GS</sub> (th)	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> = -13A			0.117	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> = -100V; V <sub>GS</sub> = 0V			-25	μA
V <sub>SD</sub>	Diode forward voltage	I <sub>F</sub> = -13A; V <sub>GS</sub> = 0V			-1.3	V

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