

# **Isc N-Channel MOSFET Transistor**

## IPAN60R800CE

#### FEATURES

- With TO-220F package
- · Low input capacitance and gate charge
- Reduced switching and conduction losses
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



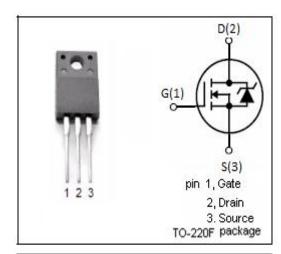
· Switching applications

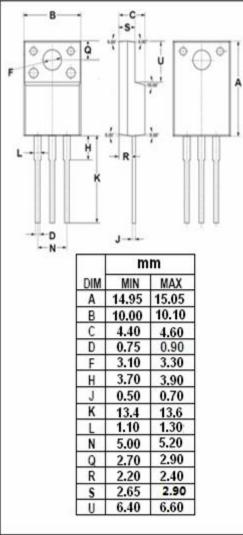


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SYMBOL	PARAMETER	VALUE	UNIT			
V <sub>DSS</sub>	Drain-Source Voltage	600	V			
V <sub>GSS</sub>	Gate-Source Voltage	±30	V			
I <sub>D</sub>	Drain Current-Continuous @Tc=25°C (V <sub>GS</sub> at 10V) Tc=100°C	8.4 5.3	А			
I <sub>DM</sub>	Drain Current-Single Pulsed	15.7	А			
P <sub>D</sub>	Total Dissipation @T <sub>C</sub> =25℃	27	W			
Tj	Max. Operating Junction Temperature	150	$^{\circ}$ C			
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$ C			

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	4.6	°C/W	
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°C/W	







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#### **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> =0.25mA	600			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> =0.17mA	2.5		3.5	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =2A		680	800	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = ±20V;V <sub>DS</sub> = 0V			±0.1	μА
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 600V; V <sub>GS</sub> = 0V;Tj=25°C V <sub>DS</sub> = 600V; V <sub>GS</sub> = 0V; Tj=150°C			1 100	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =2.5A, V <sub>GS</sub> = 0 V		0.9		V

#### **NOTICE:**

isc website: www.iscsemi.cn

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