

Isc N-Channel MOSFET Transistor

IRFP260NPBF

• FEATURES

- With TO-247 packaging
- Ease of paralleling
- High speed switching
- Hard switched and high frequency circuits
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

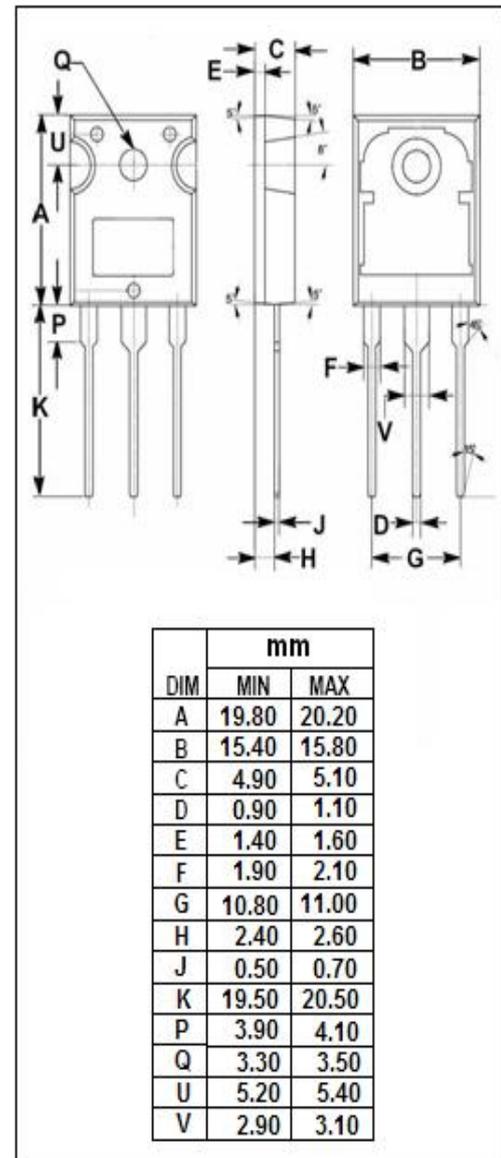
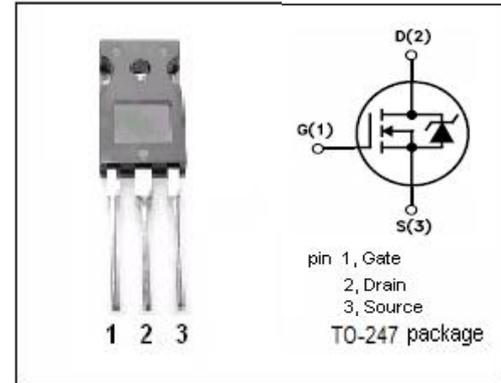
- Switching applications

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	200	V
V_{GSS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous@ $T_c=25^\circ\text{C}$ $T_c=100^\circ\text{C}$	50 35	A
I_{DM}	Drain Current-Single Pulsed	200	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$ $T_c=100^\circ\text{C}$	300	W
T_j	Operating Junction Temperature	-55~175	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~175	$^\circ\text{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.5	$^\circ\text{C}/\text{W}$
Rth(ch-a)	Channel-to-ambient thermal resistance	40	$^\circ\text{C}/\text{W}$



Isc N-Channel MOSFET Transistor**IRFP260NPBF****ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =28A			40	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V@T _c =25°C T _c =125°C			25 250	μA
V _{SDF}	Diode forward voltage	I _{SD} =28A, V _{GS} = 0 V			1.3	V

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