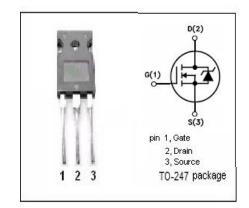


isc N-Channel MOSFET Transistor

UF450

• FEATURES

- · With TO-247 packaging
- With low gate drive requirements
- · Easy to drive
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications



SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _{GSS}	Gate-Source Voltage	±20	V
l _D	Drain Current-Continuous	12	Α
I _{DM}	Drain Current-Single Pulsed	48	Α
P _D	Total Dissipation	190	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

mm MAX MIN 19.80 15.40 15.80 4.90 5.10 0.90 1.40 1.90 10.80 Н 2.40 J 0.50 K 19.50 20.50 3.90 Q 3.30 U 5.20 2.90

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.83	°C/W

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =12A			500	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.2	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 400V; V _{GS} = 0V			25	μА
V _{SDF}	Diode forward voltage	I _{SD} =12A, V _{GS} = 0V			1.7	V



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