

isc N-Channel MOSFET Transistor

45N20

• FEATURES

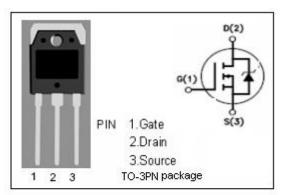
- Drain Current I_D= 45A@ T_C=25 °C
- Drain Source Voltage
 - : V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.065 \Omega (Max)$
- · Fast Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

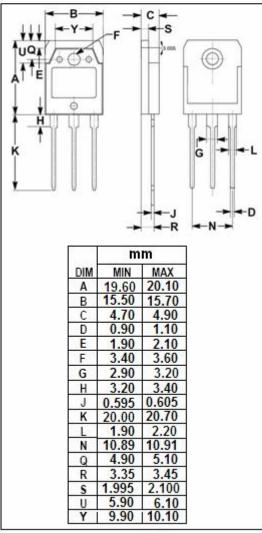


· Switch mode power supply.

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	٧
V _{GS}	Gate-Source Voltage-Continuous	±30	٧
ID	Drain Current-Continuous	45	Α
P _D	Total Dissipation @T _C =25℃	278	
Tj	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







isc N-Channel MOSFET Transistor

45N20

• ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =250μA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GE} ; I _D =250μA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 22.5A			0.065	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =200V; V _{GS} = 0			200	μΑ



ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

isc website: www.iscsemi.cn isc & iscsemi is registered trademark