

Isc N-Channel MOSFET Transistor

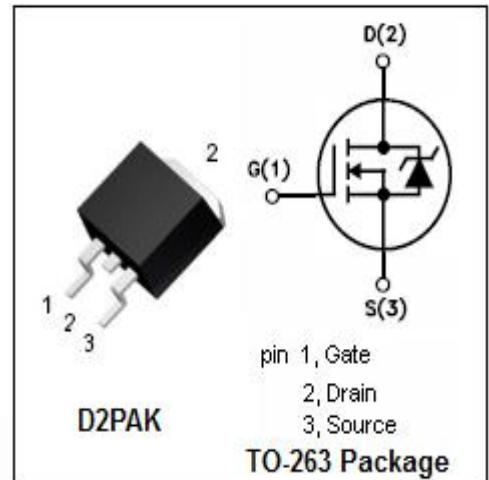
IPB110N20N3LF

• FEATURES

- With To-263(D2PAK) package
- Low input capacitance and gate charge
- Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

- Switching applications

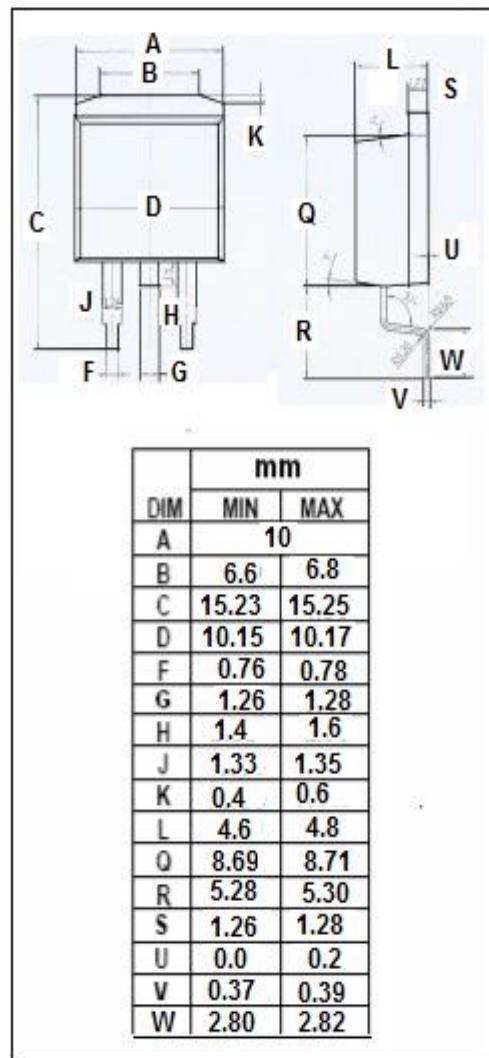


• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	200	V
V_{GSS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous $T_c=25^\circ\text{C}$ $T_c=100^\circ\text{C}$	88 61	A
I_{DM}	Drain Current-Single Pulsed	352	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	250	W
T_{ch}	Max. Operating Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$

• THERMAL CHARACTERISTICS

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



Isc N-Channel MOSFET Transistor**IPB110N20N3LF****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V; I_D= 1mA$	200			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=0.26mA$	2.2		4.2	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}= 10V; I_D=88A$		9.8	11	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS}= \pm 20V; V_{DS}=0V$			± 0.5	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=160V; V_{GS}= 0V; T_j=25^\circ C$ $V_{DS}=160V; V_{GS}= 0V; T_j=125^\circ C$			2 100	μA
V_{SDF}	Diode forward voltage	$I_{SD}=88A, V_{GS} = 0 V$		0.85	1.2	V