

isc N-Channel MOSFET Transistor

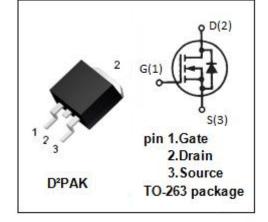
IXFA220N06T3

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 4m\Omega@V_{GS}=10V$
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- DC/DC Converters
- High Current Switching Applications

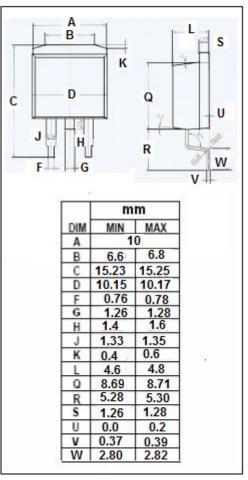


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage	±20	V	
l _D	Drain Current-Continuous	220	А	
I _{DM}	Drain Current-Single Pulsed	500	А	
P _D	Total Dissipation @T _C =25℃	440	W	
Tj	Operating Junction Temperature	-55~175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.34	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 100A		4	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±200	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		10	μА
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		1	mA
VsD	Diode forward voltage	I _F = 100A; V _{GS} = 0V		1.4	V



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