

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTA10N60P

FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤ 740mΩ@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

SYMBOL

 V_{DSS}

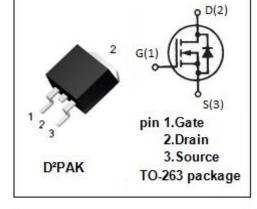
- DC/DC Converter
- Switch-Mode and Resonant-Mode Power Supplies

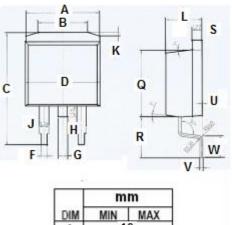
PARAMETER

Uninterrupted Power Supplies

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

Drain-Source Voltage





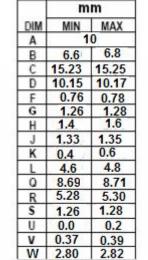
UNIT

V

VALUE

600

1



V_{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-Continuous	10	А
I _{DM}	Drain Current-Single Pulsed	25	А
P _D	Total Dissipation @T _C =25°C	200	W
Tj	T _j Operating Junction Temperature		°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.625	°C/W



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	600		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	3.0	5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 5A		740	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = ±30V; V_{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		5	- μ Α
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		50	
Vsd	Diode forward voltage	I _F = 10A; V _{GS} = 0V		1.5	V

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