

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTA2N80

• FEATURES

Static drain-source on-resistance:

RDS(on) ≤ 6.2Ω@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

VDSS

V_{GS}

ΙD

Ірм

 \mathbf{P}_{D}

Τį

Tstg

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

PARAMETER

VALUE

800

 ± 20

2

8

54

-55~150

-55~150

1

UNIT

V

V

А

А

W

°C

°C

Uninterrupted Power Supplies

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

Drain-Source Voltage

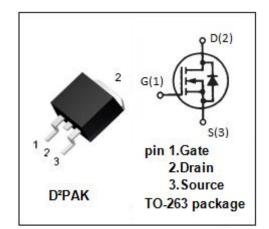
Gate-Source Voltage

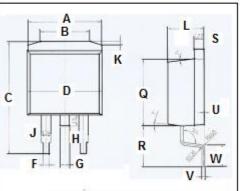
Drain Current-Continuous

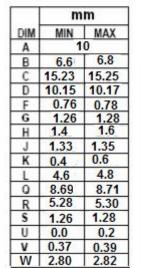
Drain Current-Single Pulsed

Total Dissipation @Tc=25°C

Operating Junction Temperature







THERMAL CHARACTERISTICS

Storage Temperature

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Junction-to-case thermal resistance	2.31	°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	800		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	2.5	5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 1A		6.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		25	μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		500	
V_{SD}	Diode forward voltage	I _F = 2A; V _{GS} = 0V		1.8	V

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