

INCHANGE SEMICONDUCTOR

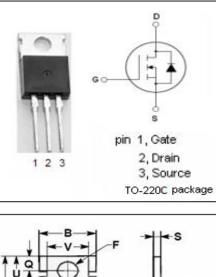
isc N-Channel MOSFET Transistor

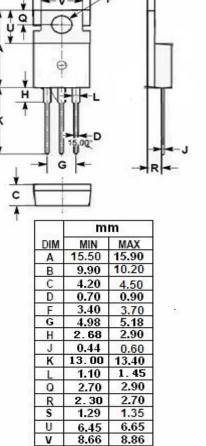
IXTP32N20T

| FEATU Static of RDS(Fully cl 100% a | | | | |
|---|---|---------|------|-------------|
| 100% a Minimu | | | | |
| perforn | nance and reliable operation | | | 1 2 3 |
| • APPLI | CATION | 7 | | |
| | Converters | | | ⊢ |
| • High S | peed Power Switching Applications | | | 440 C |
| • ABSO | LUTE MAXIMUM RATINGS(T _a =25 | °C) | | VI- |
| SYMBOL | PARAMETER | VALUE | UNIT | Î |
| V _{DSS} | Drain-Source Voltage | 200 | V | |
| V _{GS} | Gate-Source Voltage | ±20 | V | ĸ |
| ID | Drain Current-Continuous | 32 | А | |
| I _{DM} | Drain Current-Single Pulsed | 64 | А | |
| PD | Total Dissipation @Tc=25℃ | 200 | W | DIM |
| Tj | Operating Junction Temperature | -55~175 | °C | B C D |
| T _{stg} | Storage Temperature | -55~175 | °C | F G H |
| | 1 | | | J K |
| | | | | |

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|----------------------|--|-----|------|
| R _{th(j-c)} | R _{th(j-c)} Junction-to-case thermal resistance | | °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 | 200 | | V | |
| $V_{GS(th)}$ | Gate Threshold Voltage | age $V_{DS} = V_{GS}; ID = 250 \ \mu A$ | | 5.0 | v | |
| R _{DS(on)} | Drain-Source On-Resistance V_{GS} =10V; I_D = 16A | | | 78 | mΩ | |
| 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 | | 3 | | |
| | | V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C | | 200 | μA | |
| V _{SD} | iode forward voltage $I_{F}= 32A; V_{GS}= 0V$ | | | 1.2 | V | |

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