

#### **INCHANGE SEMICONDUCTOR**

## isc N-Channel MOSFET Transistor

### 4N35

#### DESCRIPTION

- Drain Current I<sub>D</sub>= 4A@ T<sub>C</sub>=25℃
- · Drain Source Voltage-: V<sub>DSS</sub>= 350V(Min)
- · Fast Switching Speed
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

#### **APPLICATIONS**

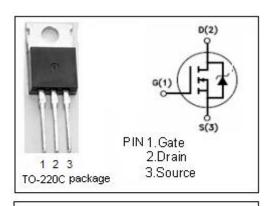
General purpose power amplifier

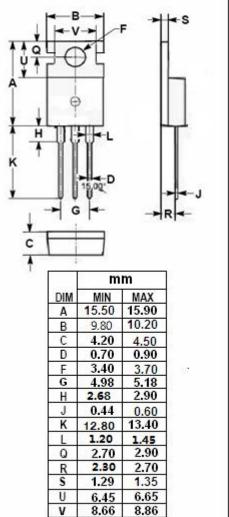
#### ABSOLUTE MAXIMUM RATINGS(Tc=25°C)

SYMBOL PARAMETER VALUE UN				
STWBOL	PARAMETER	VALUE	UNIT	
V <sub>DSS</sub>	Drain-Source Voltage (V <sub>GS</sub> =0)	350	V	
$V_{GS}$	Gate-Source Voltage	±30	V	
ID	Drain Current-continuous@ T <sub>c</sub> =25℃	4	А	
I <sub>D(puls)</sub>	Pulse Drain Current	16	А	
P <sub>tot</sub>	Total Dissipation@T <sub>C</sub> =25℃	75	W	
Tj	Max. Operating Junction Temperature	150	°C	
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C	

#### THERMAL CHARACTERISTICS

SYMBOL	YMBOL PARAMETER		UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	3	°C/W
R <sub>th j-a</sub>	Thermal Resistance, Junction to Ambient	62.5	°C/W







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•	ELECTRICAL	CHARACTERISTICS (T <sub>c</sub> =25°C)
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SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = 250µA	350			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> =1mA	2.0		4.0	V
Vsd	Diode Forward On-Voltage	I <sub>S</sub> =4A ;V <sub>GS</sub> = 0			1.4	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =2A			2.0	Ω
I <sub>GSS</sub>	Gate-Body Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 350V; V <sub>GS</sub> = 0			10	μA



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