

isc N-Channel MOSFET Transistor

8N90A

DESCRIPTION

- · Avalanche rugged technology
- Rugged gate oxide technology
- · Lower input capacitance
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· General purpose power amplifier

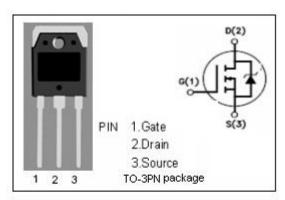


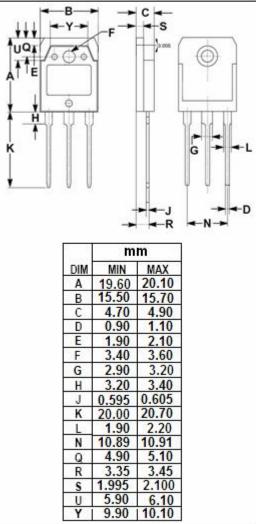
ABSOLUTE MAXIMUM RATINGS(T_C=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	V
V _{GS}	Gate-Source Voltage	±30	
I _D	Drain Current-continuous@ T _C =25℃ 8		Α
I _{D(puls)}	Pulse Drain Current	32	А
P _{tot}	Total Dissipation@T _C =25°C 240		W
Tj	Max. Operating Junction Temperature 150		${\mathbb C}$
T _{stg}	Storage Temperature Range -55~		$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.52	°C/W







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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =0.25mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.0		3.5	V
V _{SD}	Diode Forward On-Voltage	I _S =8A ;V _{GS} = 0			1.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =4A			1.6	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 900V; V _{GS} = 0			25	μΑ



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