

isc Silicon NPN Power Transistor

3DA98

DESCRIPTION

- High DC Current Gain-
: $h_{FE} > 15 @ I_C = 1.5A$
- Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

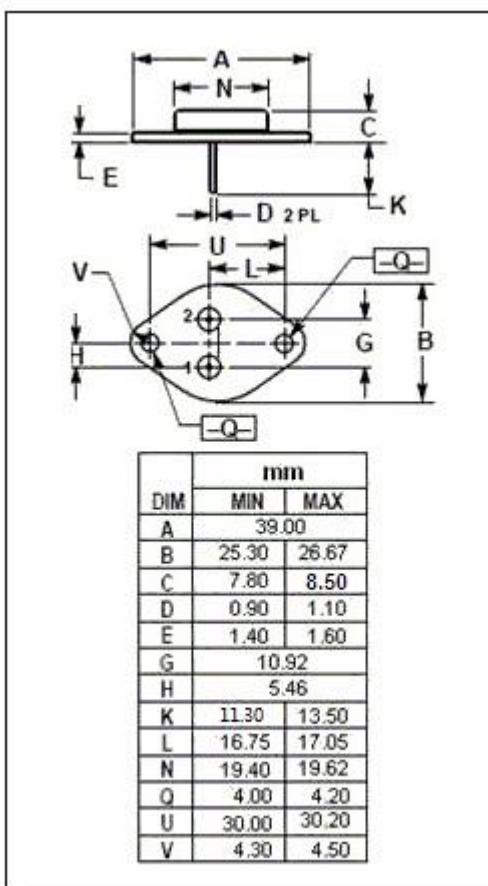
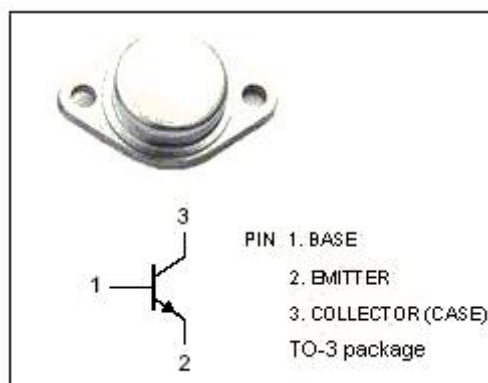
- Designed for use as an output device in complementary audio amplifiers

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	4	V
I_C	Collector Current-Continuous	5	A
P_C	Collector Power Dissipation@ $T_c = 25^\circ C$	40	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55-150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	3.1	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{CEQ(BR)}$	Collector-Emitter Breakdown Voltage	$I_C=10\text{mA}; I_B=0$	50			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=3\text{A}; I_B=0.6\text{A}$			2	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=60\text{V}; I_E=0$			2.5	mA
I_{EBO}	Emitter Cutoff current	$V_{EB}=4\text{V}; I_C=0$			2.5	mA
h_{FE}	DC Current Gain	$I_C=1.5\text{A}; V_{CE}=5\text{V}$	15			

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