

isc Silicon NPN Power Transistor

3DA98A

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

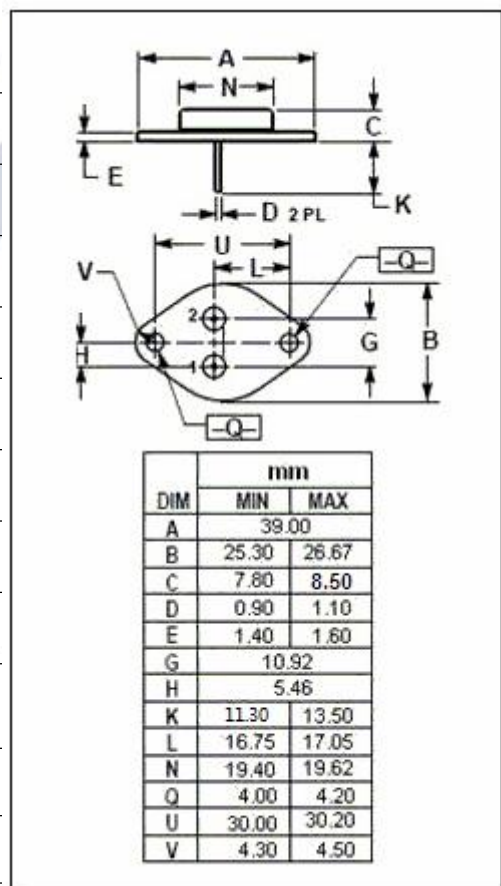
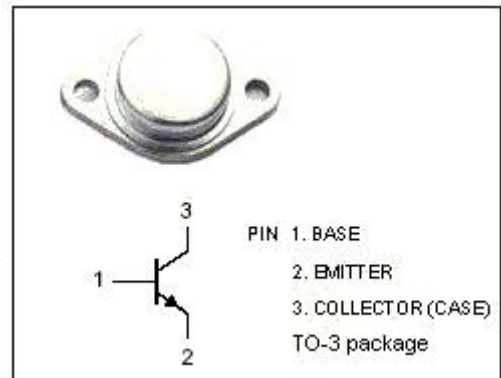
- Designed for use as an output device in complementary audio amplifiers

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	2	V
I_C	Collector Current-Continuous	5	A
P_C	Collector Power Dissipation@ $T_C=25^\circ C$	11	W
T_J	Junction Temperature	175	$^\circ C$
T_{stg}	Storage Temperature Range	-55-175	$^\circ C$

THERMAL CHARACTERISTICS

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



isc Silicon NPN Power Transistor**3DA98A****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEO(BR)}	Collector-Emitter Breakdown Voltage	I _C =10mA; I _B =0	50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =3A; I _B =0.6A			2	V
I _{CBO}	Collector Cutoff Current	V _{CB} =60V; I _E =0			2.0	mA
I _{EBO}	Emitter Cutoff current	V _{EB} =2V; I _C =0			1.0	mA
h _{FE}	DC Current Gain	I _C =1.5A; V _{CE} =5V	10			

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