

isc Silicon NPN Power Transistor
3DA76
DESCRIPTION

- High DC Current Gain-
: $h_{FE} = 15(\text{Max}) @ I_C = 0.3\text{A}$
- Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

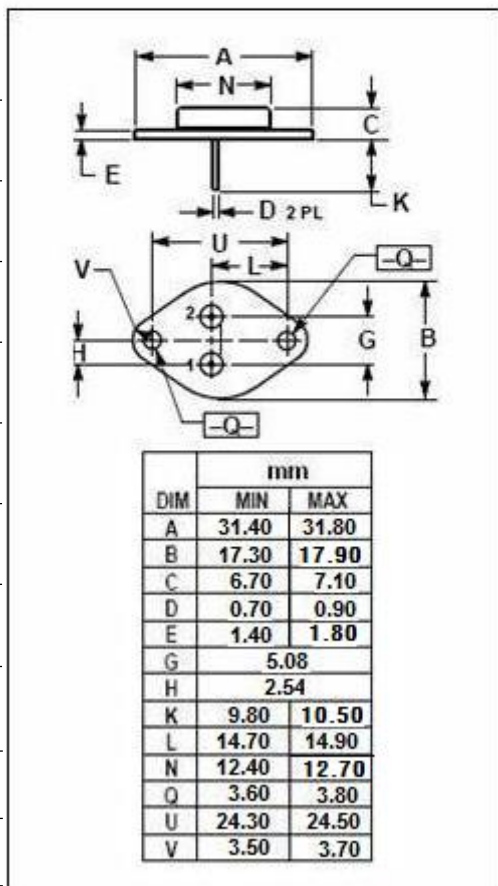
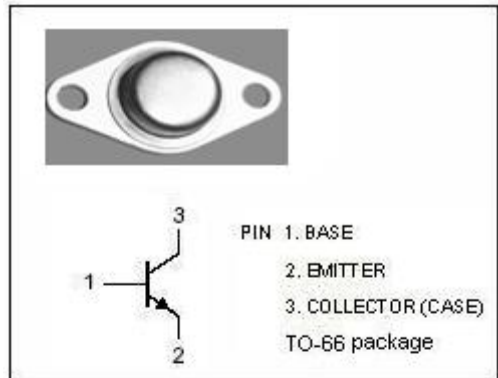
- Designed for use as an output device in complementary audio amplifiers

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	65	V
V_{EBO}	Emitter-Base Voltage	4.0	V
I_C	Collector Current-Continuous	0.5	A
P_C	Collector Power Dissipation @ $T_C = 75^\circ\text{C}$	7.5	W
T_J	Junction Temperature	175	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55-175	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	5.0	$^\circ\text{C/W}$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(BR)}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B =0	65		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B =0.1A		1.5	V
I _{CBO}	Emitter Cutoff current	V _{CE} = 24V; I _C =0		1.0	mA
I _{EBO}	Emitter Cutoff current	V _{EB} = 4.0V; I _C =0		0.2	mA
h _{FE}	DC Current Gain	I _C =0.3A ; V _{CE} =10V	15		

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