

isc Silicon NPN Power Transistor

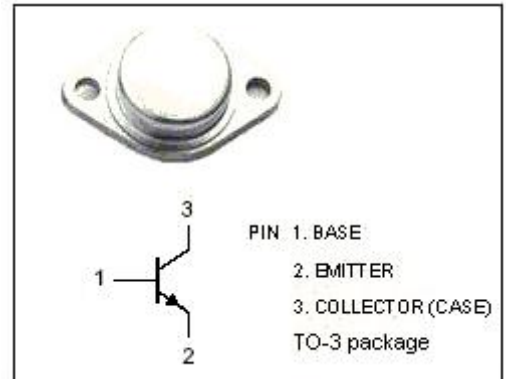
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DESCRIPTION

- J: High DC Current Gain- h_{FE} : 30-50 (1.5A/5V)
- Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

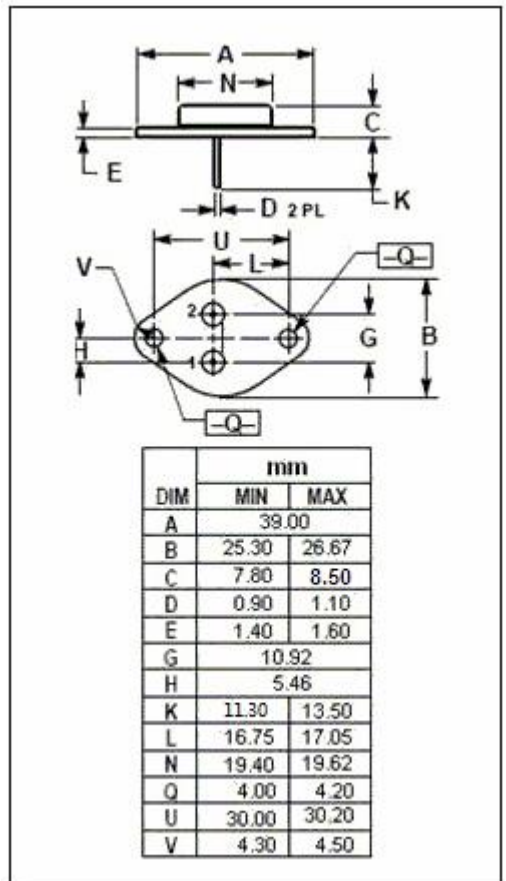
APPLICATIONS

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



ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	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°C	40	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55-150	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.1	°C/W

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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			2.5	mA
I _{EBO}	Emitter Cutoff current	V _{EB} =4V; I _C =0			2.5	mA
h _{FE}	DC Current Gain	I _C =1.5A ; V _{CE} =5V	30		50	

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