

isc Silicon NPN Power Transistor
2SC2337
DESCRIPTION

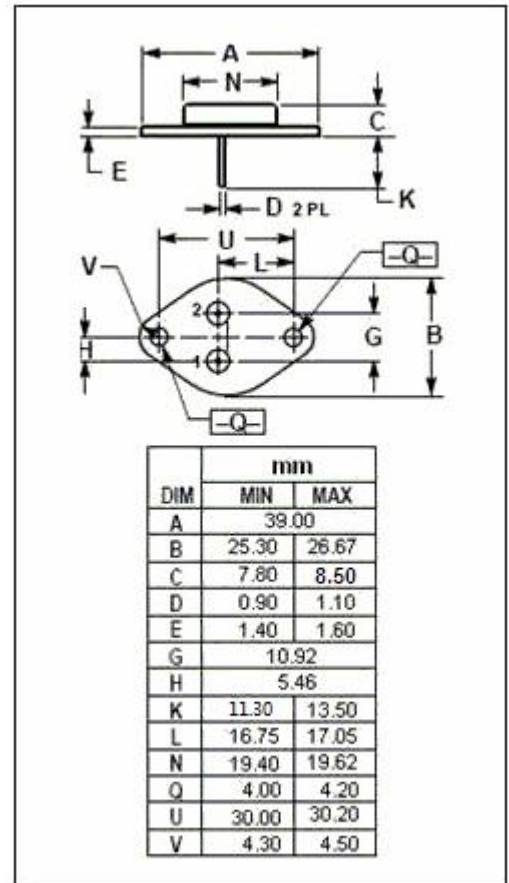
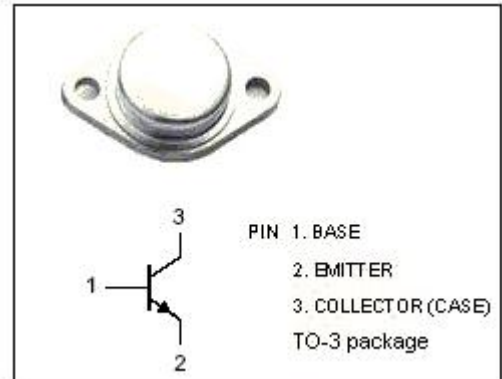
- High Current Capability
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 130V(\text{Min.})$
- Complement to Type 2SA1007
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	130	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	10	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	100	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	130			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			50	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			50	μA
h _{FE-1}	DC Current Gain	I _C = 2A; V _{CE} = 5V	40		320	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V		70		MHz
C _{OB}	Collector Output Capacitance	I _E =0; V _{CB} =10V; f=1MHz		150		pF

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