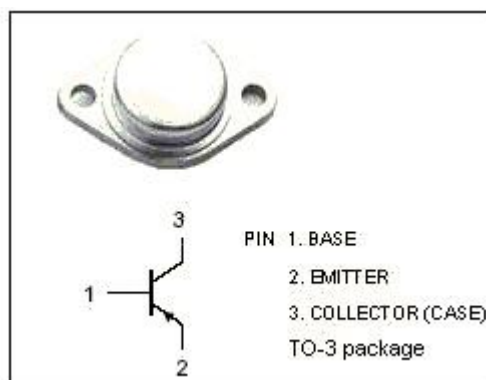


isc Silicon PNP Power Transistor
2SA1044
DESCRIPTION

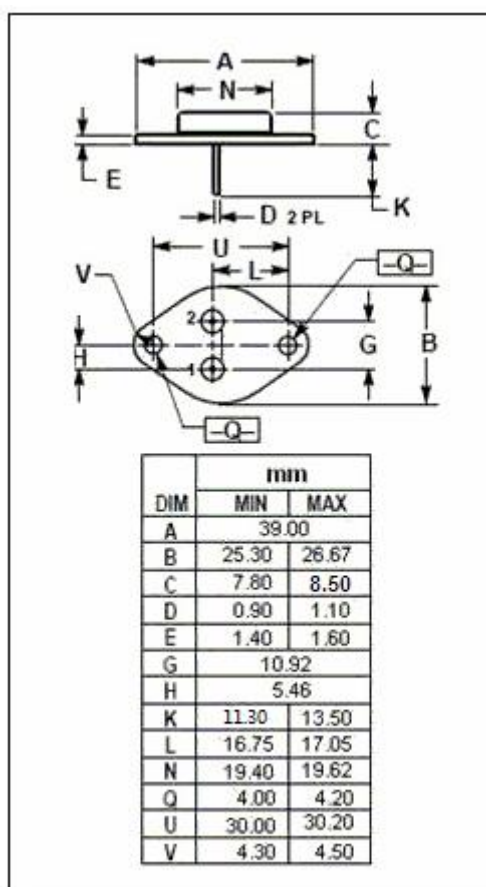
- High Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = -70V(\text{Min})$
- High Current Capability
- Wide Area of Safe Operation
- Complement to Type 2SC2434
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power switching applications
- High frequency power amplifier
- DC-DC converters


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-70	V
V_{CEO}	Collector-Emitter Voltage	-70	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-30	A
I_B	Base Current-Continuous	-10	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	150	W
T_J	Junction Temperature	175	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~175	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SA1044****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; R _{BE} = ∞	-70			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μ A; I _E = 0	-70			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -15A; I _B = -1.5A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -15A; I _B = -1.5A			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -70V; I _E = 0			-50	μ A
I _{CEO}	Collector Cutoff Current	V _{CE} = -70V; I _E = 0			-1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-50	μ A
h _{FE-1}	DC Current Gain	I _C = -3A; V _{CE} = -5V	35		200	
h _{FE-2}	DC Current Gain	I _C = -30A; V _{CE} = -5V	10			

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