

isc Silicon NPN Power Transistor

2SD144

DESCRIPTION

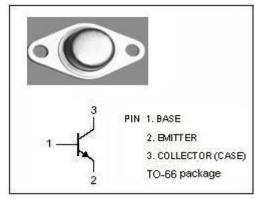
- DC Current Gain -hFE = 40(Min)@ IC= 1A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR) CEO}= 50V(Min)
- With TO-66 Package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

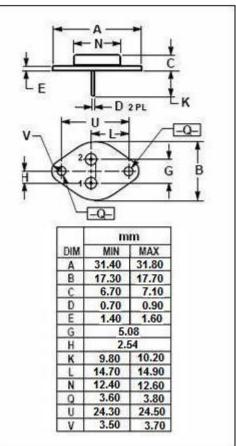
APPLICATIONS

· Designed for use in power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
Vceo	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	2.0	Α
Ісм	Collector Current-Peak	3.0	Α
I _B	Base Current	1.0	Α
Pc	Collector Power Dissipation@T _C =25℃	15	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 20mA ; I _B = 0	50		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A		1.8	V
І _{СВО}	Collector Cutoff Current	V _{CB} = 100V; V _{EB} = 0		0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 50V; I _B = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 2V	40	200	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V	10		MHz

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