

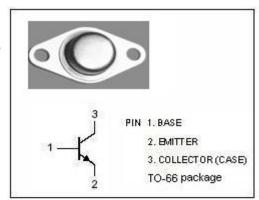
isc Silicon NPN Power Transistor

DESCRIPTION

- DC Current Gain -hFE = 4(Min)@ IC= 0.75A
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 700V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

 Designed for use in general purpose power amplifier and switching applications

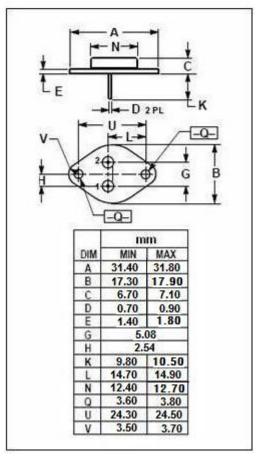


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage 1100		V
V _{CEO}	Collector-Emitter Voltage	nitter Voltage 700	
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	ollector Current-Continuous 1.0	
I _{CM}	Collector Current-Peak	5.0	Α
Pc	Collector Power Dissipation @ T _C =25 ℃ 25		W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

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





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2SC1034

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.75A; I _B = 0.075A		5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 0.75A; I _B = 0.075A		1.4	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V;I _B = 0		5.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C =0		4.0	mA
h _{FE}	DC Current Gain	I _C = 0.75A; V _{CE} = 3V	4	40	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.2A; V _{CE} = 10V, f _{test} = 1.0MHz	5		MHz



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