

ISC Silicon NPN Power Transistor

2SC1170

DESCRIPTION

- With TO-3 Package
- · High voltage
- · Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

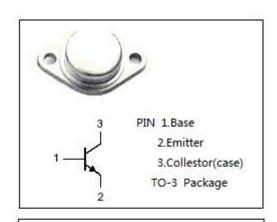


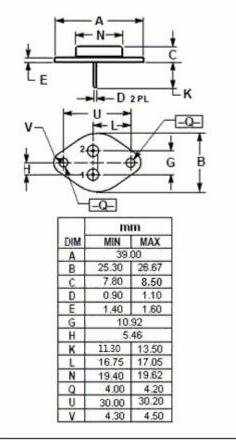
APPLICATIONS

· For power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage 1200		V
V _{CEO}	Collector-Emitter Voltage	500	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous 3.5		А
Pc	Collector Power Dissipation	50	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.6A			1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.6A			1.2	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	500			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
h _{FE-1}	DC Current Gain	I _C =0.5A; V _{CE} = 10V	10			
h _{FE-2}	DC Current Gain	I _C =2A; V _{CE} = 10V	5			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f _{test} = 1MHz	4			MHz

NOTICE:

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