

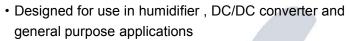
isc Silicon NPN Power Transistor

2SC3834

DESCRIPTION

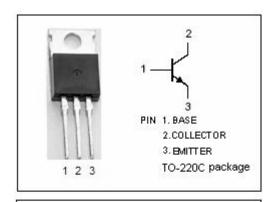
- · Low Collector Saturation Voltage
 - : V_{CE(sat)}= 0.5V(Max)@ I_C=3A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V (Min)
- · Good Linearity of hFE
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

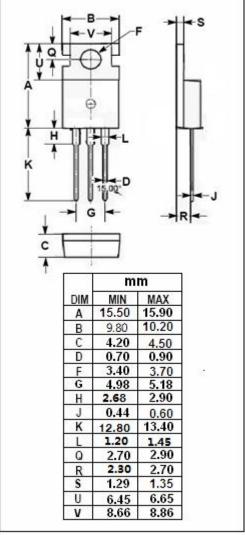




ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	7	А
Ісм	Collector Current-Pulse	14	Α
lв	Base Current-Continuous	3	Α
Pc	Collector Power Dissipation © Tc=25°C		W
TJ	T _J Junction Temperature		$^{\circ}$
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA ; I _B = 0	120			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			100	μА
h _{FE}	DC Current Gain	Ic= 3A; Vc= 4V	70		220	

♦ h_{FE} Classifications

Ο	Y	G
70-120	100-200	160-220

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