

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SC3835

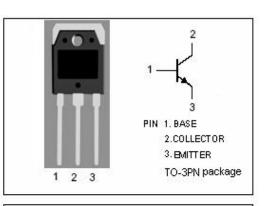
DESCRIPTION

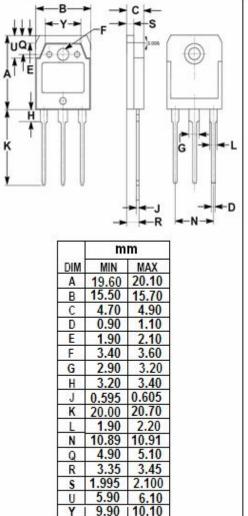
- Low Collector Saturation Voltage
 - : V_{CE(sat)}= 0.5V(Max)@ I_C=3A
- · Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 120V (Min)
- Good Linearity of h_{FE}
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for use in humidifier , DC/DC converter and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
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		
lc	Collector Current-Continuous	ector Current-Continuous 7			
Ісм	Collector Current-Pulse 14		A		
I _B	Base Current-Continuous 3		A		
Pc	Collector Power Dissipation . @ $T_C=25^{\circ}C$		W		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature Range	- 55~150 °C			





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	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	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			100	μA
h _{FE}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	70		220	

• h_{FE} Classifications

0	Y	G
70-120	100-200	160-220

NOTICE:

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