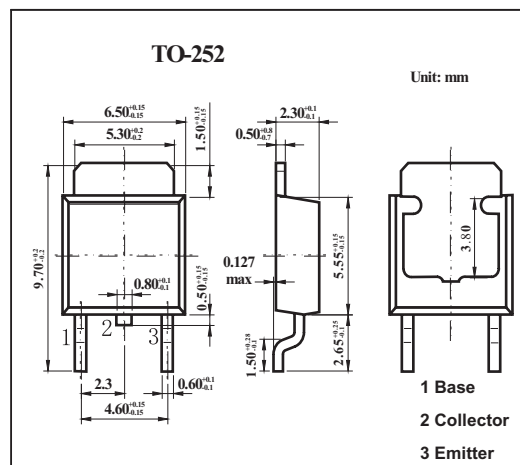


# 2SC2983

### Features

- High Transition Frequency: Ft=100MHz(TYP.)



### Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V <sub>CB0</sub>	160	V
Collector to emitter voltage	V <sub>CEO</sub>	160	V
Emitter to base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	1.5	A
Base Current	I <sub>B</sub>	0.3	A
Total Power dissipation Ta = 25°C Tc = 25°C	P <sub>C</sub>	1	W
		15	W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

### Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
collector cutoff current	I <sub>CB0</sub>	V <sub>CB</sub> =160V, I <sub>E</sub> =0			1	μA
emitter cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0			1	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =0	160			V
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =1mA, I <sub>C</sub> =0	5			V
DC current Gain	h <sub>FE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =100mA	70		240	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA			1.5	V
Base- Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =500mA			1	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =100mA		100		MHz
Collector Output Capacitance	cob	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz		25		pF

### hFE Classification

Marking	O	Y
hFE	70 to 140	120 to 240