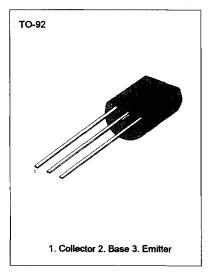
## **SWITCHING AND AMPLIFIER**

- HIGH VOLTAGE: BC546, VCEO=65V
- LOW NOISE: BC549, BC550
- Complement to BC556 ... BC 560

## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25℃)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V <sub>CBO</sub>		
:BC546		80	l v
:BC547/550		50	l v
:BC548/549		30	V
Collector-Emitter Voltage	V <sub>CEO</sub>		1
:BC546		65	l v
:BC547/550	1	45	l v
:BC548/549/550		30	l v
Ernitter-Base Voltage	VERO		V
:BC546/547		6	V
:BC548/549/550		5	l v
Collector Current (DC)	l <sub>C</sub>	100	mA
Collector Dissipation	Pc	500	mW
Junction Temperature	T,	150	rc
Storage Temperature	T <sub>STG</sub>	-65 ~ 150	r



## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

Char	acteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Cut-off C	urrent	Iceo	V <sub>CB</sub> =30V, I <sub>E</sub> =0			15	nA
DC Current Gain		h <sub>FE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =2mA	110		800	
Collector Ernitter Saturation Voltage		V <sub>CE</sub> (sat)	I <sub>C</sub> =10mA, I <sub>B</sub> =0.5mA	1	90	250	m∨
		, ,	I <sub>C</sub> =100mA, I <sub>8</sub> =5mA	1	200	600	mV
Collector Base Saturation Voltage		V <sub>BE</sub> (on)	I <sub>C</sub> =10mA, I <sub>B</sub> =0.5mA	1	700	1	m∨
			I <sub>C</sub> =100mA, I <sub>B</sub> =5mA	1	900	}	m۷
Base Emitter On V	ottage	V <sub>BE</sub> (on)	V <sub>CE</sub> =5V, l <sub>C</sub> =2mA	580	660	700	mV
		•	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA	1		720	m∨
Current Gain Band	width Product	fī	V <sub>CE</sub> =5V, l <sub>C</sub> =10mA		300		MHz
Collector Base Car	pacitance	Ccso	V <sub>c8</sub> =10V, f=1MHz	- [	3.5	6	pF
Emitter Base Capa		CEBO	V <sub>EB</sub> =0.5V, f=1MHz	1	9		pF
Noise Figure	:BC546/547/548	NF	V <sub>CE</sub> =5V, I <sub>C</sub> =200µA	1	2	10	d₿
•	:BC549/550	1	f=1KHz, R <sub>G</sub> =2kΩ		1.2	4	dB
	:BC549	NF	V <sub>CE</sub> =5V, I <sub>C</sub> =200μA		1.4	4	dB
	:BC550	1	R <sub>G</sub> =2kΩ,		1.4	3	dB
			f=30~15000MHz				

## h<sub>FE</sub> CLASSIFICATION

Classification	A	В	С
h <sub>FE</sub>	110-220	200-450	420-800



