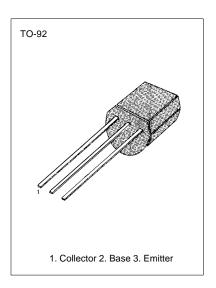
SWITCHING AND AMPLIFIER

HIGH VOLTAGE: BC546, V_{CEO}=65V
LOW NOISE: BC549, BC550
Complement to BC556 ... BC560

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V _{CBO}		
: BC546		80	V
: BC547/550		50	V
: BC548/549		30	V
Collector-Emitter Voltage	V_{CEO}		
: BC546		65	V
: BC547/550		45	V
: BC548/549/550		30	V
Emitter-Base Voltage	V_{EBO}		V
: BC546/547		6	V
: BC548/549/550		5	V
Collector Current (DC)	I _C	100	mA
Collector Dissipation	Pc	500	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65 ~ 150	°C



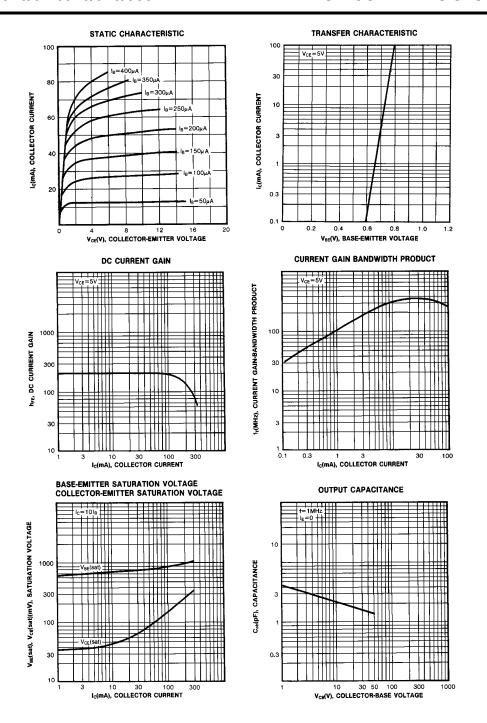
ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Cut-off Current	I _{CBO}	V _{CB} =30V, I _E =0			15	nA
DC Current Gain	h _{FE}	$V_{CE}=5V$, $I_{C}=2mA$	110		800	
Collector Emitter Saturation Voltage	V _{CE} (sat)	I _C =10mA, I _B =0.5mA		90	250	mA
		$I_C=100$ mA, $I_B=5$ mA		200	600	mA
Collector Base Saturation Voltage	V _{BE} (on)	$I_C=10mA$, $I_B=0.5mA$		700		mA
		I _C =100mA, I _B =5mA		900		mA
Base Emitter On Voltage	V _{BE} (on)	V _{CE} =5V, I _C =2mA	580	660	700	mA
		$V_{CE}=5V$, $I_{C}=10mA$			720	mΑ
Current Gain Bandwidth Product	f _T	$V_{CE}=5V$, $I_{C}=10mA$		300		MHz
Collector Base Capacitance	ССВО	V _{CB} =10V, f=1MHz		3.5	6	pF
Emitter Base Capacitance	C _{EBO}	V _{EB} =0.5V, f=1MHz		9		pF
Noise Figure : BC546/547/548	NF	V _{CE} =5V, I _C =200μA		2	10	dB
: BC549/550		$f=1KHz$, $R_G=2K\Omega$		1.2	4	dB
: BC549	NF	V _{CE} =5V, I _C =200μA		1.4	4	dB
	INI	$R_G=2K\Omega$,				dB
: BC550		f=30~15000MHz		1.4	3	uБ

h_{FE} CLASSIFICATION

Classification	Α	В	С
h _{FE}	110-220	200-450	420-800







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FACTTM QSTM

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