

FEATURES

- High Voltage



TO- 92

MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

Symbol	Parameter		Value	Unit
VCBO	Collector-Base Voltage	BC546B	80	V
		BC547B	50	
		BC548B	30	
VCEO	Collector-Emitter Voltage	BC546B	65	V
		BC547B	45	
		BC548B	30	
VEBO	Emitter-Base Voltage		6	V
Ic	Collector Current-Continuous		0.1	A
Pc	Collector Power Dissipation		625	mW
ReJA	Thermal Resistance from Junction to Ambient		200	°C/W
Ti	Junction Temperature		150	°C
Tstg	Storage Temperature		-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BC546B	$V_{(BR)CBO}$	$I_c=0.1\text{mA}, I_e=0$	80			V
	BC547B			50			
	BC548B			30			
Collector-emitter breakdown voltage	BC546B	$V_{(BR)CEO}$	$I_c=1\text{mA}, I_g=0$	65			V
	BC547B			45			
	BC548B			30			
Emitter-base breakdown voltage		$V_{(BR)EBO}$	$I_e=10\mu\text{A}, I_c=0$	6			V
Collector cut-off current	BC546B	I_{CBO}	$V_{CB}=70\text{V}, I_e=0$			0.1	μA
	BC547B		$V_{CB}=50\text{V}, I_e=0$			0.1	μA
	BC548B		$V_{CB}=30\text{V}, I_e=0$			0.1	μA
Collector cut-off current	BC546B	I_{CEO}	$V_{CE}=60\text{V}, I_g=0$			0.1	μA
	BC547B		$V_{CE}=45\text{V}, I_g=0$			0.1	μA
	BC548B		$V_{CE}=30\text{V}, I_g=0$			0.1	μA
Emitter cut-off current		I_{EBO}	$V_{EB}=5\text{V}, I_c=0$			0.1	μA
DC current gain		h_{FE}	$V_{CE}=5\text{V}, I_c=2\text{mA}$	110		800	
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_c=100\text{mA}, I_e=5\text{mA}$			0.3	V
Base-emitter saturation voltage		$V_{BE(sat)}$	$I_c=100\text{mA}, I_g=5\text{mA}$			1.1	V
Base-emitter voltage		V_{BE}	$V_{CE}=5\text{V}, I_c=2\text{mA}$	0.58		0.7	V
			$V_{CE}=5\text{V}, I_c=10\text{mA}$			0.75	V
Collector output capacitance		C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$			4.5	pF
Transition frequency		f_T	$V_{CE}=5\text{V}, I_c=10\text{mA}, f=100\text{MHz}$	150			MH

CLASSIFICATION of h_{fe}

RANK	A	B	C
RANGE	110-220	200-450	420-800

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