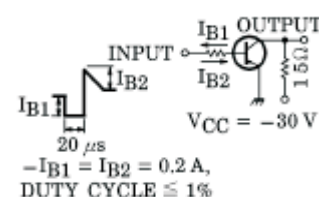


2SB1667

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit	
Collector cut-off current	ICBO	V _{CB} = -60 V, I _E = 0			-100	μA	
Emitter cut-off current	IEBO	V _{EB} = -7 V, I _C = 0			-100	μA	
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -50mA, I _B = 0	-60			V	
DC current gain	h _{FE}	V _{CE} = -5 V, I _C = -0.5 A	60		300		
		V _{CE} = -5 V, I _C = -3 A	20				
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -3 A, I _B = -0.3 A		-0.5	-1.7	V	
Base-emitter voltage	V _{BE}	V _{CE} = -5A, I _C = -0.5 A		-0.7	-1.0	V	
Transition frequency	f _T	V _{CE} = -5V, I _C = -0.5 A		9		MHz	
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1 MHz		150		pF	
Turn-on time	t _{on}	 <p> I_{B1} INPUT I_{B2} OUTPUT $V_{CC} = -30 V$ $20 \mu s$ $-I_{B1} = I_{B2} = 0.2 A$ DUTY CYCLE $\leq 1\%$ </p>		0.4		μs	
Storage time	t _{stg}				1.7		μs
Fall time	t _f				0.5		μs

■ hFE Classification

Rank	O	Y
hFE	60~120	100~200