

Symbol	Parameter	Test Conditions	Min	Мах	Units
	RACTERISTICS		20	1	
/ <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 \ \mu {\rm A}, \ I_{\rm E} = 0$ $I_{\rm C} = 2.0 \ {\rm mA}, \ I_{\rm B} = 0$	32 32		V V
/ <sub>(BR)CEO</sub> / <sub>(BR)CES</sub>	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 2.0$ mA, $I_{\rm B} = 0$ $I_{\rm C} = 10 \mu\text{A}, I_{\rm E} = 0$	32		V
(BR)CES	Emitter-Base Breakdown Voltage	$I_{\rm E} = 10 \mu\text{A}, I_{\rm E} = 0$ $I_{\rm E} = 10 \mu\text{A}, I_{\rm C} = 0$	5.0		V
CBO	Collector-Cutoff Current	$V_{CB} = 32 \text{ V}, I_E = 0$	0.0	100	nA
CBO		$V_{CB} = 32 \text{ V}, I_E = 0$ $V_{CB} = 32 \text{ V}, I_E = 0, T_A = +100 \text{ °C}$		10	μA
	ACTERISTICS				
	DC Current Gain	$V_{CE} = 5.0 \text{ V}, I_C = 2.0 \text{ mA}$	215	500	
/ <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	$I_{\rm C}$ = 10 mA, $I_{\rm B}$ = 0.5 mA		0.30	V
/ <sub>BE(on)</sub>	Base-Emitter On Voltage	$V_{CE} = 5.0 \text{ V}, I_C = 2.0 \text{ mA}$	0.60	0.75	V
	IGNAL CHARACTERISTICS	3 12 34	5		
				4.0	
IF	Noise Figure	$V_{CE} = 5.0 \text{ V}, J_C = 200 \mu\text{A},$ $R_S = 2.0  \Omega\Omega, f = 1.0 \text{kHz},$ $B_W = 200 \text{Hz}$		10	dB
	Noise Figure	$R_s = 2.0 \text{ k}\Omega$ , f = 1.0 kHz,		10	dB

BCW30