

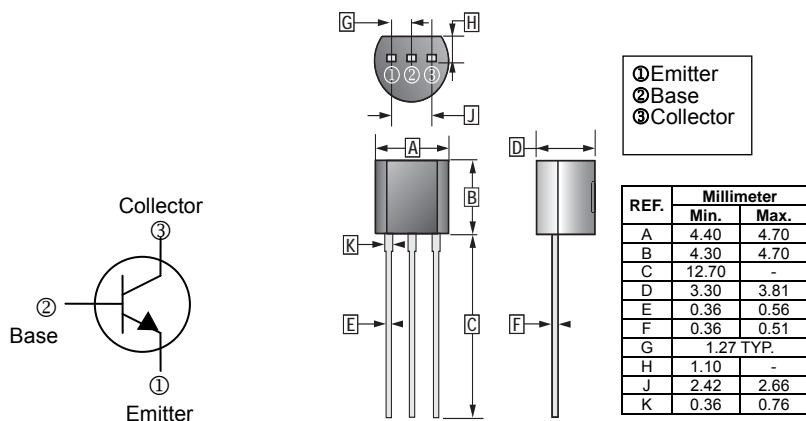
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Voltage : $V_{CE0} = 100V$
- Gain of 20 @ $I_C = 0.5A$

TO-92



ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ C$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	2N6716	60
		2N6717	80
		2N6718	100
Collector to Emitter Voltage	V_{CEO}	2N6716	60
		2N6717	80
		2N6718	100
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	1	A
Collector Power Dissipation	P_D	1	W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	$^\circ C$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ C$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions	
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	2N6716	60	-	-	V	$I_C=100\mu A, I_E=0$
		2N6717	80	-	-		
		2N6718	100	-	-		
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	2N6716	60	-	-	V	$I_C=1mA, I_B=0$
		2N6717	80	-	-		
		2N6718	100	-	-		
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=1mA, I_C=0$	
Collector Cut-Off Current	I_{CBO}	2N6716	-	-	1	μA	$V_{CB}=60V, I_E=0$
		2N6717	-	-			$V_{CB}=80V, I_E=0$
		2N6718	-	-			$V_{CB}=100V, I_E=0$
Emitter Cut-Off Current	I_{EBO}	2N6716	-	-	1	μA	$V_{EB}=5V, I_C=0$
		2N6717	-	-			
		2N6718	-	-			
DC Current Gain	$h_{FE(1)}^*$	2N6716	80	-	-		$V_{CE}=1V, I_C=50mA$
		2N6717	50	-	250		$V_{CE}=1V, I_C=250mA$
		2N6718	20	-	-		$V_{CE}=1V, I_C=500mA$

Collector to Emitter Saturation Voltage	$V_{CE(sat)}$ *	-	-	0.5	V	$I_C=250mA, I_B=10mA$
		-	-	0.35		$I_C=250mA, I_B=25mA$
Base to Emitter Turn-on Voltage	$V_{BE(on)}$ *	-	-	1.2	V	$V_{CE}=1V, I_C=250mA$
Collector to Base Capacitance	C_{CB}	-	-	30	pF	$V_{CE}=10V, f=1MHz$
Transition Frequency	f_T	50	-	500	MHz	$V_{CE}=10V, I_C=50mA$

*Pulse test.

CHARACTERISTIC CURVE

