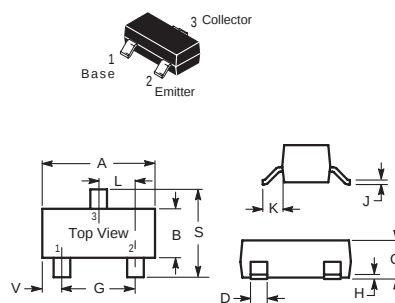
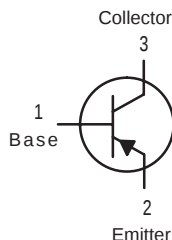


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Power dissipation
 $P_{CM} : 0.3 \text{ W}$
- Collector Current
 $I_{CM} : -1.5 \text{ A}$
- Collector-base voltage
 $V_{(BR)CBO} : -40 \text{ V}$
- Operating & storage junction temperature
 $T_J, T_{STG} : -55^{\circ}\text{C} \sim +150^{\circ}\text{C}$



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

ELECTRICAL CHARACTERISTICS at $T_a = 25^{\circ}\text{C}$

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV_{CBO}	-40	-	-	V	$I_C = 100 \mu\text{A}, I_E = 0$
BV_{CEO}	-25	-	-	V	$I_C = -0.1\text{mA}, I_B = 0$
BV_{EBO}	-5	-	-	V	$I_E = -100 \mu\text{A}, I_C = 0$
I_{CBO}	-	-	-0.1	μA	$V_{CB} = -40 \text{ V}, I_E = 0$
I_{CEO}	-	-	-0.1	μA	$V_{CE} = -20\text{V}, I_B = 0$
I_{EBO}	-	-	-0.1	μA	$V_{EB} = -5\text{V}, I_C = 0$
$V_{CE(sat)}$	-	-	0.5	V	$I_C = -800 \text{ mA}, I_B = -80\text{mA}$
$V_{BE(sat)1}$	-	-	1.2	V	$I_C = -800 \text{ mA}, I_B = -80\text{mA}$
$*h_{FE1}$	120	-	350	-	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$
$*h_{FE2}$	40	-	-	-	$V_{CE} = -1\text{V}, I_C = -800\text{mA}$
f_T	100	-	-	MHz	$V_{CE} = -10\text{V}, I_C = -50\text{mA}, f = 30\text{MHz}$
C_{OB}	-	-	20	pF	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$

CLASSIFICATION OF $h_{FE(1)}$

Rank	L	H	J
Range	120 - 200	200-350	300-400
Marking	Y2		

CHARACTERISTIC CURVES

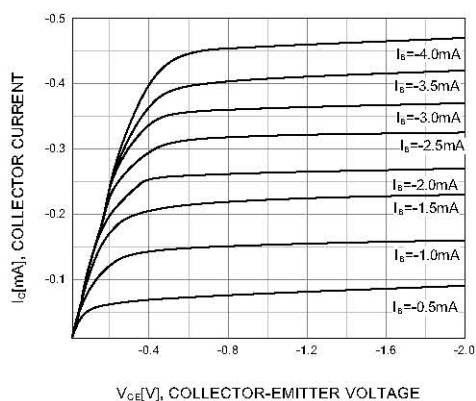


Figure 1. Static Characteristic

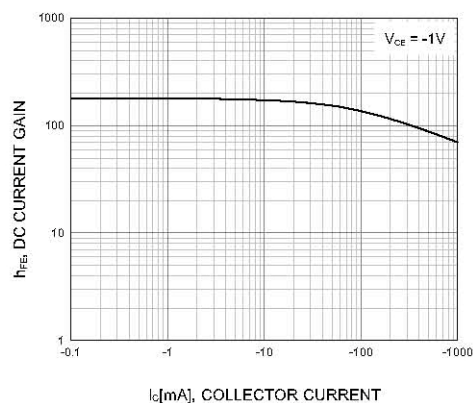


Figure 2. DC current Gain

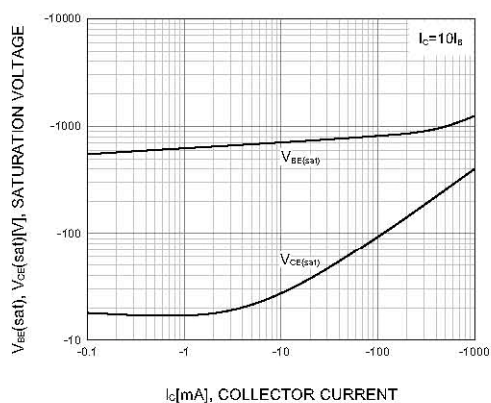


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

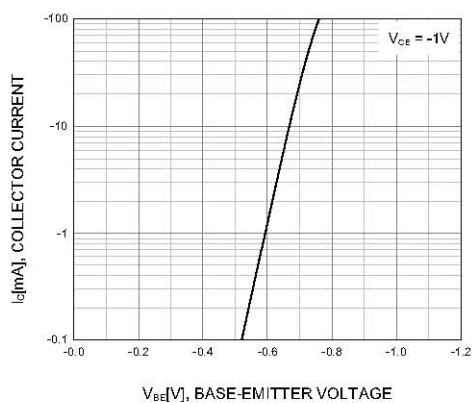


Figure 4. Base-Emitter On Voltage

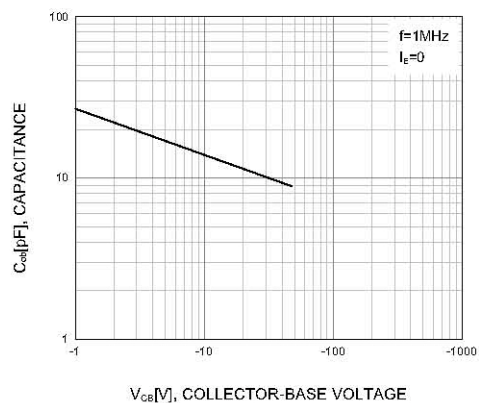


Figure 5. Collector Output Capacitance

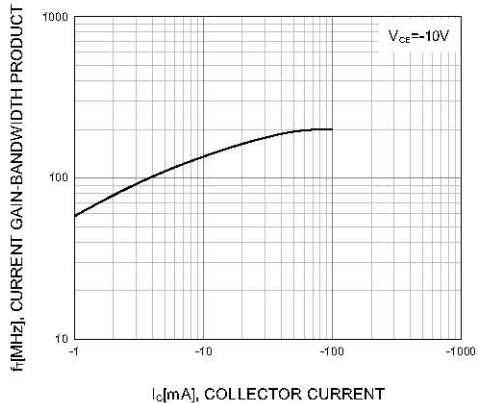


Figure 6. Current Gain Bandwidth Product