Elektronische Bauelemente

2SA733

-60 V, -150mA

PNP Plastic Encapsulated Transistor

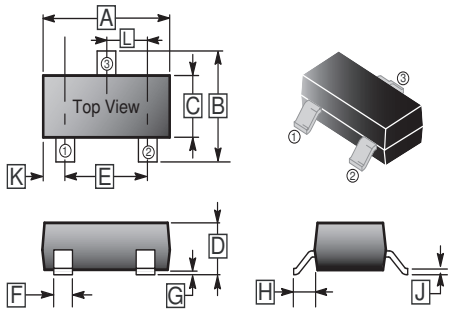
RoHS Compliant Product

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

FEATURES

- Complementary of the 2SC945
- Collector to base voltage: -60V

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.04	G	0.09	0.18
B	2.10	2.55	H	0.45	0.60
C	1.20	1.40	J	0.08	0.177
D	0.89	1.15	K	0.6 REF.	
E	1.78	2.04	L	0.89	1.02
F	0.30	0.50			

MARKING

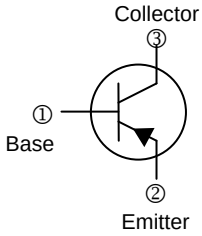
Product	Marking Code
2SA733	CS

CLASSIFICATION OF h_{FE}

Product-Rank	2SA733-L	2SA733-H
Range	120~220	200~475

PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOT-23	3K	7' inch



ABSOLUTE MAXIMUM RATINGS (T_A = 25℃ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-150	mA
Collector Power Dissipation	P_C	200	mW
Junction, Storage Temperature	T_J, T_{STG}	150, -55 ~ 150	℃

ELECTRICAL CHARACTERISTICS (T_A = 25℃ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-60	-	-	V	I_C= -5μA, I_E=0
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50	-	-	V	I_C= -1mA, I_B=0
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	I_E= -50μA, I_C=0
Collector Cut-Off Current	I_{CBO}	-	-	-0.1	μA	V_{CB}= -60V, I_E=0
Emitter Cut-Off Current	I_{EBO}	-	-	-0.1	μA	V_{EB}= -5V, I_C=0
DC Current Gain	h_{FE}	120	-	475		V_{CE}= -6V, I_C= -1mA
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-0.18	-0.3	V	I_C= -100mA, I_B= -10mA
Base to Emitter Saturation Voltage	$V_{BE(on)}$	-0.58	-0.62	-0.68	V	V_{CE}= -6V, I_C= -1.0mA
Transition Frequency	f_T	50	-	-	MHz	V_{CE}= -6V, I_C= -10mA
Collector Output Capacitance	C_{ob}	-	4.5	7	pF	V_{CB}= -10V, I_E=0, f=1MHz
Noise Figure	NF	-	6	20	dB	V_{CE}= -6V, I_C= -0.3mA, f=100Hz, R_G=10KΩ

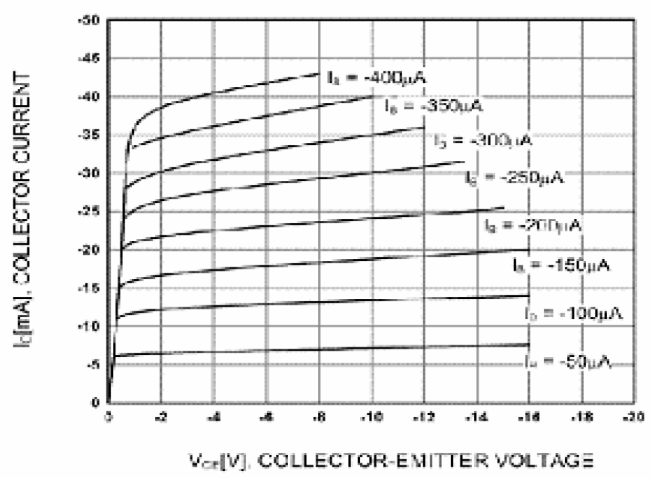
Elektronische Bauelemente

2SA733

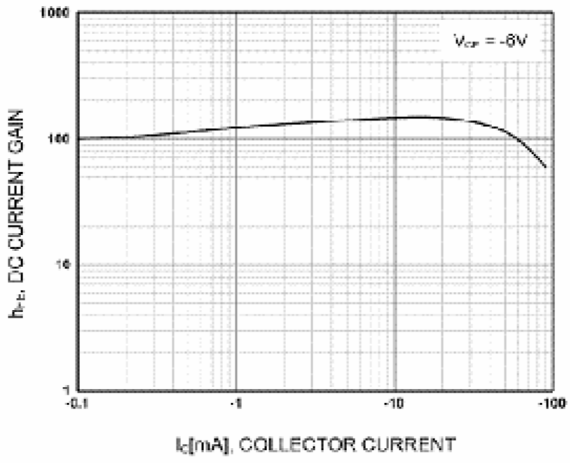
-60 V, -150mA

PNP Plastic Encapsulated Transistor

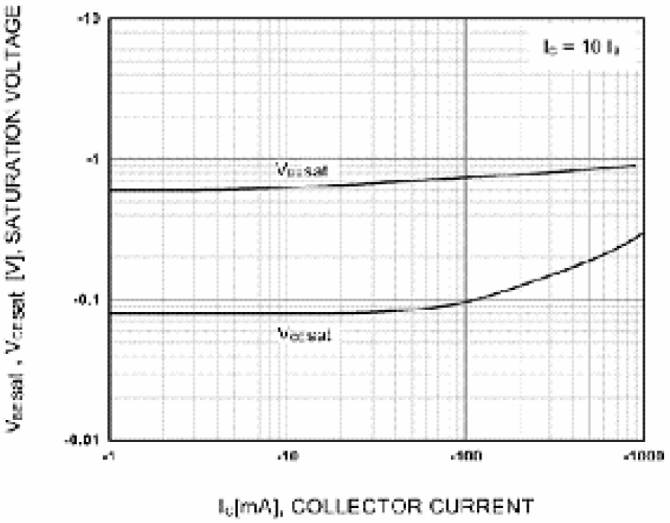
CHARACTERISTIC CURVES



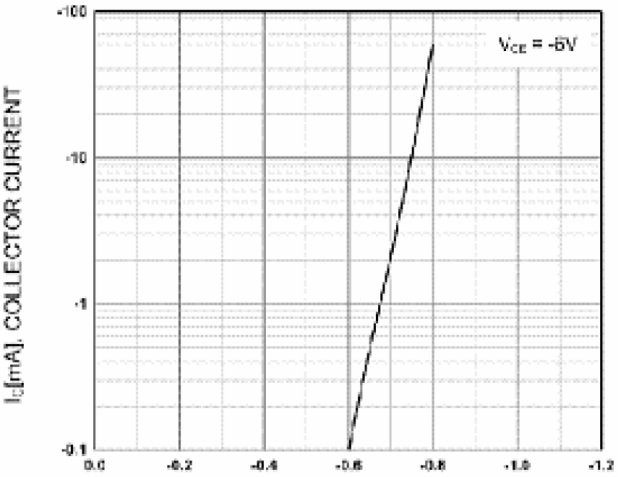
Static Characteristic



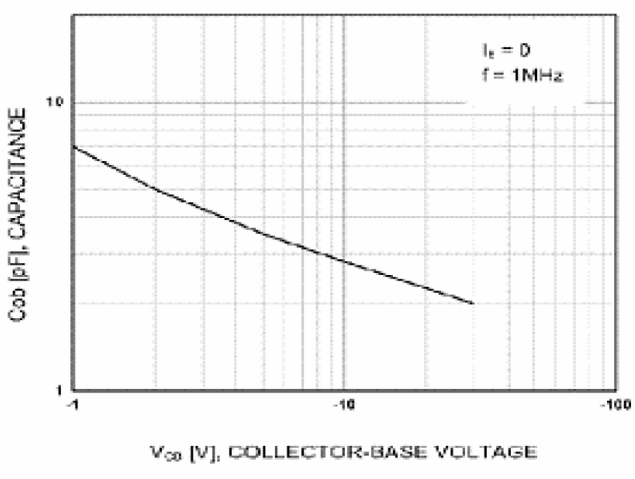
DC current Gain



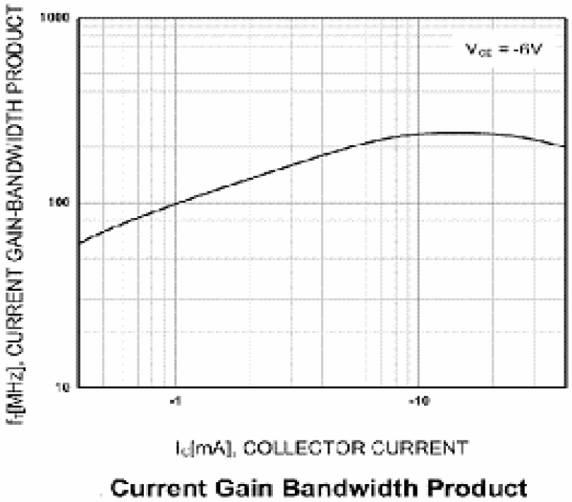
Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage



Base-Emitter On Voltage



Collector Output Capacitance



Current Gain Bandwidth Product