Elektronische Bauelemente

A733

-0.1A , -60V

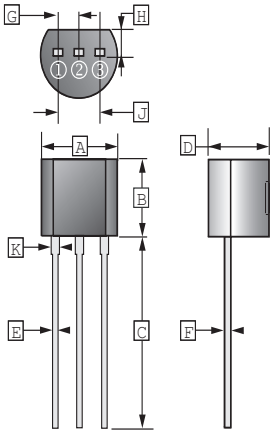
PNP Plastic-Encapsulated Transistor

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

FEATURES

- Power Dissipation

TO-92

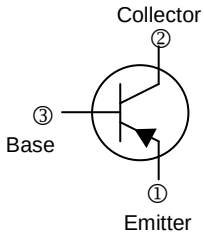


①Emitter
②Collector
③Base

REF.	Millimeter	
	Min.	Max.
A	4.40	4.70
B	4.30	4.70
C	12.70	-
D	3.30	3.81
E	0.36	0.56
F	0.36	0.51
G	1.27 TYP.	
H	1.10	-
J	2.42	2.66
K	0.36	0.76

CLASSIFICATION OF h_{FE}

Product-Rank	A733-R	A733-Q	A733-P	A733-K
Range	90~180	135~270	200~400	300~600



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

Parameter	Symbol	Rating	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	-100	mA
Collector Power Dissipation	P_D	250	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= -50μA, 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}	90	200	600		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 Voltage	V_{BE}	-0.58	-0.62	-0.68	V	V_{CE} = -6V, I_C= -1mA
Transition Frequency	f_T	100	-	-	MHz	V_{CE}= -6V, I_C= -10mA
Collector Output Capacitance	C_{ob}	-	-	6	pF	V_{CB}= -10V, I_E=0, f=1MHz
Noise Figure	NF	-	-	20	dB	V_{CE}= -6V, I_C= -0.3mA, f=100Hz, R_G=10KΩ

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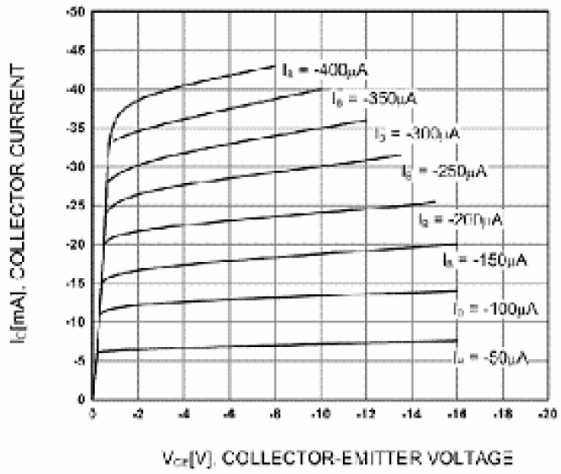
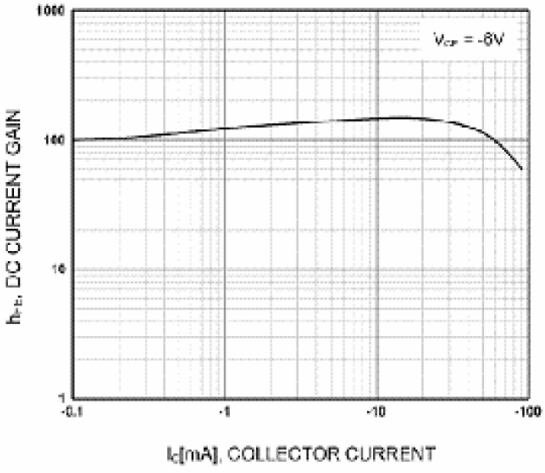
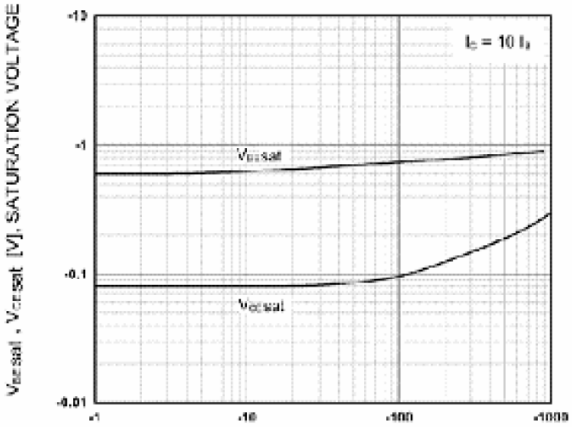
CHARACTERISTIC CURVES



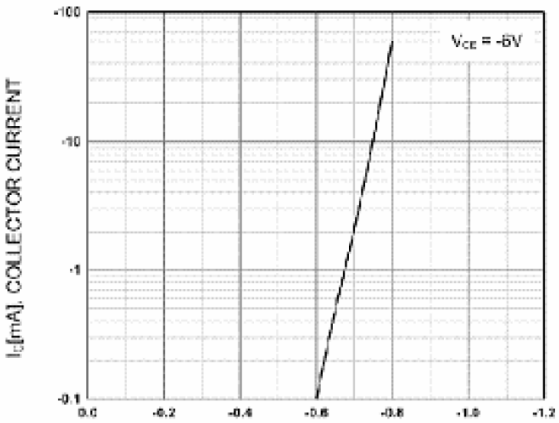
Static Characteristic



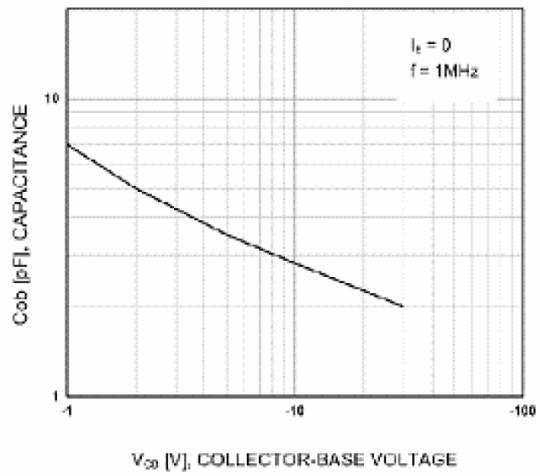
DC current Gain



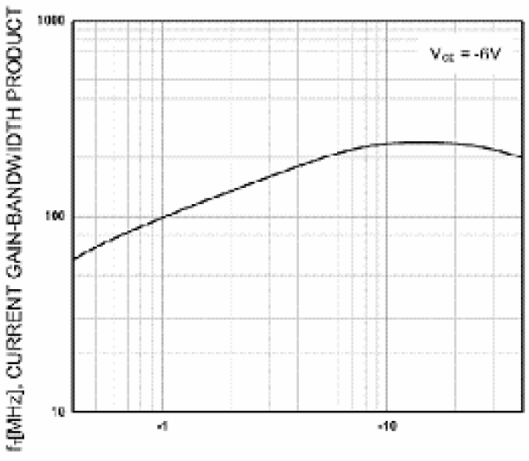
Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage



Base-Emitter On Voltage



Collector Output Capacitance



Current Gain Bandwidth Product