



Micro Commercial Components



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**2SA733-R**  
**2SA733-Q**  
**2SA733-P**  
**2SA733-K**

## Features

- Capable of 0.25Watts of Power Dissipation.
- Collector-current 0.1A
- Collector-base Voltage 60V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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#### OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emmitter Breakdown Voltage ( $I_C = -1.0\text{mA}$ , $I_B = 0$ )	-50	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C = -5.0\text{uA}$ , $I_E = 0$ )	-60	---	---	Vdc
$V_{(BR)EBO}$	Emmitter-Base Breakdown Voltage ( $I_E = -50\text{uA}$ , $I_C = 0$ )	-5.0	---	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB} = -60\text{Vdc}$ , $I_E = 0$ )	---	---	-0.1	$\mu\text{A}$
$I_{EBO}$	Emmitter Cutoff Current ( $V_{EB} = -5.0\text{Vdc}$ , $I_C = 0$ )	---	---	-0.1	$\mu\text{A}$

#### ON CHARACTERISTICS

$h_{FE}$	DC Current Gain ( $I_C = -1.0\text{mA}$ , $V_{CE} = -6.0\text{Vdc}$ )	90	200	600	---
$V_{CE(sat)}$	Collector-Emmitter Saturation Voltage ( $I_C = -100\text{mA}$ , $I_B = -10\text{mA}$ )	---	-0.18	-0.3	Vdc

#### SMALL-SIGNAL CHARACTERISTICS

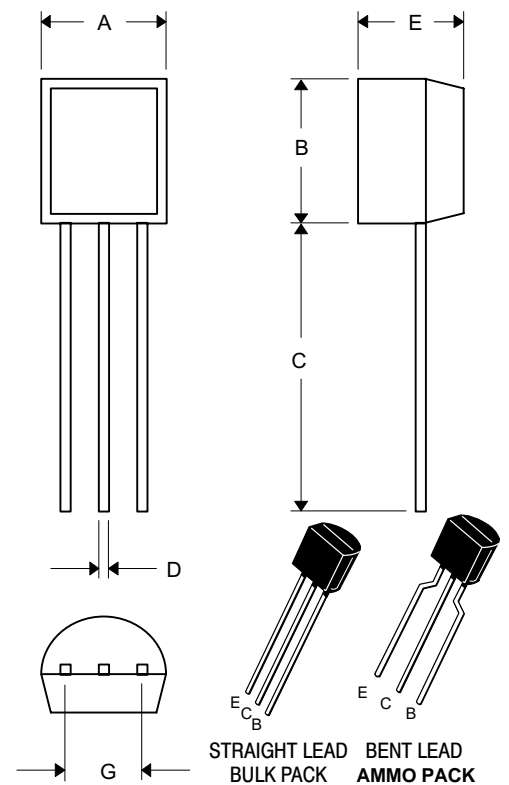
$f_T$	Transistor Frequency ( $I_C = 10\text{mA}$ , $V_{CE} = -6.0\text{Vdc}$ )	100	---	---	MHz
$C_{ob}$	Collector output capacitance ( $V_{CB} = -10\text{Vdc}$ , $I_E = 0$ , $f = 1\text{MHz}$ )	---	---	6	pF
NF	Noise figure ( $V_{CE} = -6\text{Vdc}$ , $I_C = -0.3\text{mA}$ , ( $R_g = 10\text{k}\Omega$ , $f = 100\text{Hz}$ )	---	---	20	dB

#### CLASSIFICATION OF $h_{FE}$

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

## PNP Silicon Plastic-Encapsulate Transistor

### TO-92



#### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

\* For ammo packing detailed specification, click here to visit our website of product packaging for details.



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## Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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