



## TO-92 Plastic-Encapsulate Transistors

TO-92

**A733** TRANSISTOR (PNP)

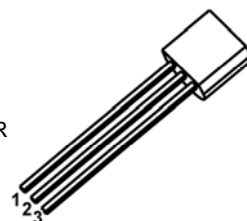
### FEATURE

Power dissipation

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-60	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-50	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
I <sub>C</sub>	Collector Current -Continuous	-100	mA
P <sub>C</sub>	Collector Power Dissipation	250	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Junction and Storage Temperature	-55-150	°C

1. EMITTER
2. COLLECTOR
3. BASE



### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = -50uA, I <sub>E</sub> =0	-60			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = -1mA, I <sub>B</sub> =0	-50			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = -50uA, I <sub>C</sub> =0	-5			V
Collector cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = -60V, I <sub>E</sub> =0			-0.1	uA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = -5 V, I <sub>C</sub> =0			-0.1	uA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -6V, I <sub>C</sub> = -1mA	90	200	600	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -100mA, I <sub>B</sub> =- 10mA		-0.18	-0.3	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =-6V, I <sub>C</sub> =-1.0mA	-0.58	-0.62	-0.68	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =-6V, I <sub>C</sub> =-10mA	100			MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz			6	pF
Noise figure	NF	V <sub>CE</sub> =-6V, I <sub>C</sub> =-0.3mA, R <sub>g</sub> =10kΩ, f=100Hz			20	dB

### CLASSIFICATION OF h<sub>FE</sub>

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

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