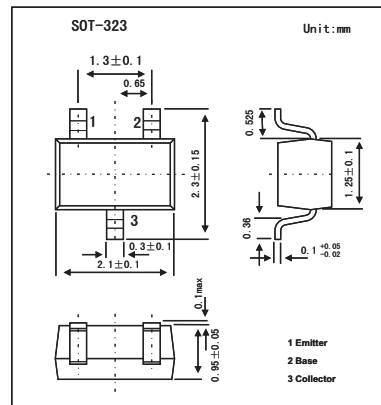


# MMSTA92

## ■ Features

- High breakdown voltage
- Low collector-emitter saturation voltage
- Complementary to MMSTA42



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CB0</sub>	-300	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-300	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5.0	V
Collector Current -Continuous	I <sub>C</sub>	-300	mA
Collector Power Dissipation	P <sub>C</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55 to 150	°C

## ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-to-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 100 μA, I <sub>E</sub> =0	-300			V
Collector-to-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 1 mA, I <sub>B</sub> =0	-300			V
Emitter-to-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 100 μA, I <sub>C</sub> =0	-5.0			V
Collector cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> = -200 V, I <sub>E</sub> =0			-0.25	μA
Collector cutoff current	I <sub>EBO</sub>	V <sub>CE</sub> = -3.0V, I <sub>C</sub> =0			-0.1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -10V, I <sub>C</sub> = -1.0mA	60			
		V <sub>CE</sub> = -10V, I <sub>C</sub> = -10mA	100		200	
		V <sub>CE</sub> = -10V, I <sub>C</sub> = -30mA	60			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-20 mA, I <sub>B</sub> = -2.0mA			-0.5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =-20 mA, I <sub>B</sub> = -2.0mA			-0.9	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = -20V, I <sub>C</sub> = -10mA, f=100MHz	50			MHz
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-20V, f=1.0MHz, I <sub>E</sub> =0			6.0	pF

## ■ Marking

Marking	K3R
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