



FUKUCOM COMPANY LTD.

福靈有限公司

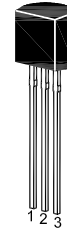
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MPSA10(BEC)

NPN Silicon Epitaxial Planar Transistor

VHF / UHF Transistor.



1. Base 2. Emitter 3. Collector
TO-92 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CB0}	30	V
Collector Emitter Voltage	V_{CEO}	25	V
Emitter Base Voltage	V_{EBO}	3	V
Collector Current	I_C	100	mA
Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 10\text{ V}$, $I_C = 4\text{ mA}$	h_{FE}	60	-	-
Collector Base Cutoff Current at $V_{CB} = 25\text{ V}$	I_{CB0}	-	100	nA
Emitter Base Cutoff Current at $V_{EB} = 2\text{ V}$	I_{EBO}	-	100	nA
Collector Base Breakdown Voltage at $I_C = 100\text{ }\mu\text{A}$	$V_{(BR)CB0}$	30	-	V
Collector Emitter Breakdown Voltage at $I_C = 1\text{ mA}$	$V_{(BR)CEO}$	25	-	V
Emitter Base Breakdown Voltage at $I_E = 10\text{ }\mu\text{A}$	$V_{(BR)EBO}$	3	-	V
Collector Emitter Saturation Voltage at $I_C = 4\text{ mA}$, $I_B = 0.4\text{ mA}$	$V_{CE(sat)}$	-	0.5	V
Base Emitter On Voltage at $V_{CE} = 10\text{ V}$, $I_C = 4\text{ mA}$	$V_{BE(on)}$	-	0.95	V
Current Gain Bandwidth Product at $V_{CE} = 10\text{ V}$, $I_C = 4\text{ mA}$, $f = 100\text{ MHz}$	f_T	650	-	MHz
Collector Base Capacitance at $V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{cb}	-	0.7	pF
Collector Base Feedback Capacitance at $V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{rb}	0.35	0.65	pF

