



Micro Commercial Components

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MPSH10

NPN RF Transistor

Features

- Capable of 0.35Watts of Power Dissipation.
- Collector Current: 0.05A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking: MPSH10

Maximum Ratings*

Symbol	Rating	Rating	Unit
V_{CE0}	Collector-Emitter Voltage	25	V
V_{CBO}	Collector-Base Voltage	30	V
V_{EBO}	Emitter-Base Voltage	3.0	V
I_C	Collector Current	50	mA
P_D	Power Dissipation	0.35	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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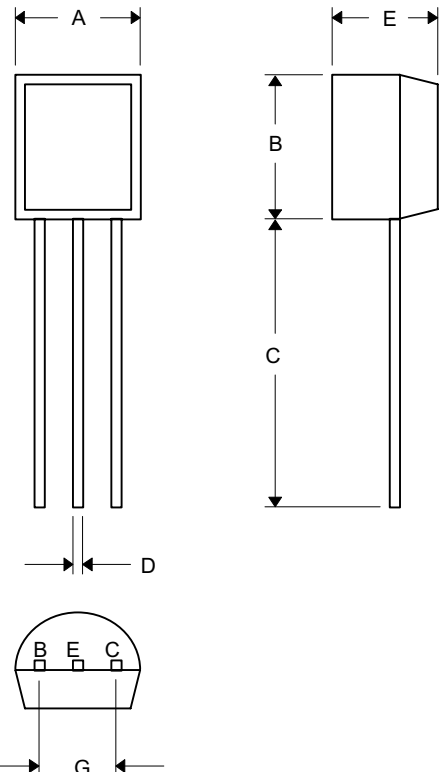
OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=1\text{mA}$, $I_B=0$)	25	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu\text{A}$, $I_E=0$)	30	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu\text{A}$, $I_C=0$)	3.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=25\text{Vdc}$, $I_E=0$)	---	0.1	μA
I_{CEO}	Collector Cutoff Current ($V_{CE}=20\text{Vdc}$, $I_B=0$)	---	0.2	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=2.0\text{Vdc}$, $I_C=0$)	---	0.1	μA

ON CHARACTERISTICS*

h_{FE}	DC Current Gain ($I_C=4\text{mA}$, $V_{CE}=10\text{Vdc}$)	60	200	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=4\text{mA}$, $I_B=0.4\text{mA}$)	---	0.5	Vdc
$V_{BE(on)}$	Base-Emitter On Voltage ($I_C=4\text{mA}$, $V_{CE}=10\text{Vdc}$)	---	0.95	Vdc
f_T	Transition Frequency ($V_{CE}=10\text{V}$, $I_C=4\text{mA}$, $f=100\text{MHz}$)	650	---	MHZ

TO-92



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



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Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel;2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

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