PNP Silicon Epitaxial Planar Transistor



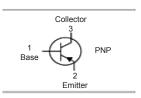


Features:

- Power dissipation.(P_c = 200mW)
- Epitaxial planar die construction.
- Complementary to MMSTA42.
- · Also available in lead free version.

Applications:

• General purpose application and switching application.





Maximum Rating: @ TA = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{\scriptscriptstyle \sf CBO}$	-310	
Collector-Emitter Voltage	V _{CEO}	-305	V
Emitter-Base Voltage	V_{EBO}	-5	
Collector Current-continuous	I _c	-300	mA
Collector Dissipation	P _c	200	mW
Junction and Storage Temperature	T_{j},T_{stg}	-55 to 150	°C

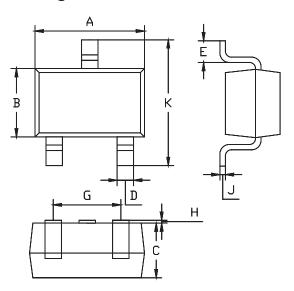
Electrical Characteristics: @ TA = 25°C unless otherwise specified

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Collector-base Breakdown Voltage	V _{(BR)CBO}	$I_{c} = -100\mu\text{A}, I_{E} = 0$	-310		
Collector-emitter Breakdown Voltage	V _{(BR)CEO}	$I_{c} = -1 \text{mA}, I_{B} = 0$	-305		V
Emitter-base Breakdown Voltage	V _{(BR)EBO}	$I_{E} = -100 \mu A, I_{C} = 0$	-5		
Collector Cut-off Current	I _{CBO}	V _{CB} = -200V, I _E = 0		-0.25	μА
Emitter Cut-off Current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$		-0.1	
DC Current Gain	h _{FE}	$V_{CE} = -10V, I_{C} = -1mA$ $V_{CE} = -10V, I_{C} = -10mA$ $V_{CE} = -10V, I_{C} = -80mA$	60 100 60	200	
Collector-emitter Saturation Voltage	V _{CE(sat)}	$I_{\rm C}$ = -20mA, $I_{\rm B}$ = -2mA		-0.2	V
Base-emitter Saturation Voltage	V _{BE(sat)}	$I_{\rm C}$ = -20mA, $I_{\rm B}$ = -2mA		-0.9	v
Transition Frequency	f _⊤	$V_{CE} = -20V, I_{C} = -10mA, f = 30MHz$	50		MHz

PNP Silicon Epitaxial Planar Transistor

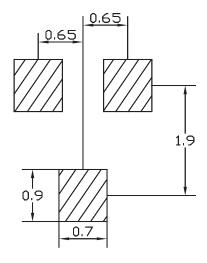


Package Outline:



SOT-323				
Dim	Min.	Max.		
А	1.8	2.2		
В	1.15	1.35		
С	1 Typical			
D	0.15	0.35		
Е	0.25	0.4		
G	1.2	1.4		
Н	0.02	0.1		
J	0.1 Typical			
K	2.1	2.3		
All Dimensions in mm				

Soldering Footprint:



Dimensions: Millimetres

Part Number Table

Description	Part Number		
Transistor, Bipolar, PNP, -305V, -300mA, SOT-323	MMSTA92-7-F		

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

