



Micro Commercial Components

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2N6718

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Through Hole TO-92 Package
- Capable of 625mWatts of Power Dissipation
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Mechanical Data

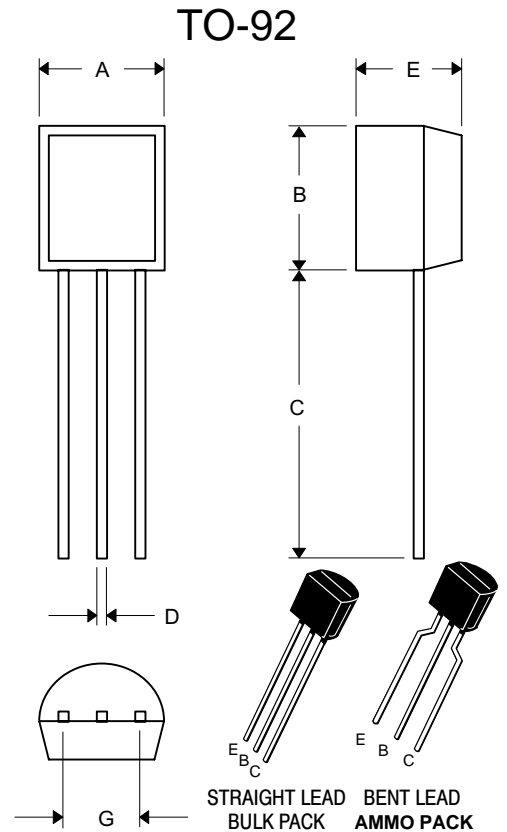
- Case: TO-92, Molded Plastic

Maximum Ratings @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Value	Unit
Collector-Emitter Voltage	V_{CEO}	100	V
Collector-Base Voltage	V_{CBO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	1.0	A
Collector Power Dissipation	P_C	625	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	200	°CW
Operating & Storage Temperature	T_j, T_{STG}	-55~150	°C

NPN Silicon General Purpose Transistor

625mW



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.169	.185	4.30	4.70	
B	.169	.185	4.30	4.70	
C	.500	---	12.70	---	
D	.015	.022	0.38	0.55	
E	.130	.146	3.30	3.70	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	

* For ammo packing detailed specification, click here to visit our website of product packaging for details.

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA, I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =1mA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =100V, I _E =0			1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			1	μA
DC current gain	h _{FE(1)} *	V _{CE} =1V, I _C =50mA	80			
	h _{FE(2)} *	V _{CE} =1V, I _C =250mA	50		250	
	h _{FE(3)} *	V _{CE} =1V, I _C =500mA	20			
Collector-emitter saturation voltage	V _{CE(sat)(1)} *	I _C =250mA, I _B =10mA			0.5	V
	V _{CE(sat)(2)} *	I _C =250mA, I _B =25mA			0.35	V
Base-emitter voltage	V _{BE} *	V _{CE} =1V, I _C =250mA			1.2	V
Collector output capacitance	C _{ob}	V _{CB} =10V, f=1MHz			30	pF
Transition frequency	f _T	V _{CE} =10V, I _C =50mA	50			MHz

*Pulse test: pulse width ≤300μs, duty cycles ≤ 2.0%.



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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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