

Micro Commercial Components



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Features

- This device is designed for use as general purpose amplifiers and switches requiring collector currents to 500mA
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings*

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	25	V
V _{CBO}	Collector-Base Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5.0	V
l _c	Collector Current, Continuous	800	mA
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Thermal Characteristics

Symbol	Rating	Max	Unit
PD	Total Device Dissipation	625	mW
	Derate above 25°C	5.0	m₩/ºC
R _{JC}	Thermal Resistance, Junction to Case	83.3	°C/W
R _{JA}	Thermal Resistance, Junction to Ambient	200	°C/W

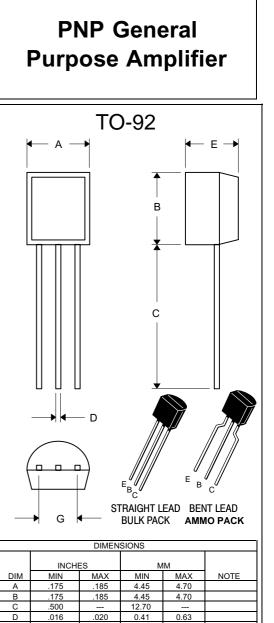
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	OFF CHARACTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (Ե=10mAdc, ь=0)	25		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (t _c =100ì Adc, l _c =0)	40		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (t=100ì Adc, t _c =0)	5.0		Vdc
сво	Collector Cutoff Current (V _{CB} =20Vdc, I _E =0)		100	nAdc
I _{EBO}	Base Cutoff Current (V _{EB} =3.0Vdc, I _C =0)		100	nAdc

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Notes: 1. These ratings are based on a maximum junction temperature of 150 degrees C.

2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.



MPS3702

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of product packaging for details

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For ammo packing detailed specification, click here to visit our website

3.68

2.67 5.60 Straight Lead Bent Lead

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Symbol	Parameter	Min	Max	Units
ON CHAR	ACTERISTICS			
h _{FE}	DC Current Gain			
	(V _{CE} =5.0Vdc, I _C =50mAdc)	60	300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage			
	(I _c =50mAdc, I _b =5.0mAdc)		0.25	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage			
. ,	(I _c =50mAdc,V _{cE} =5.0Vdc)	0.6	1.0	Vdc
SMALL-S	IGNAL CHARACTERISTICS			
C _{OB}	Output Capacitance			
	(V _{CB} =10Vdc, f=1.0MHz)		12	pF
f _T	Current Gain-Brandwidth Product			
	(I _C =50mAdc, V _{CE} =5.0Vdc, f=20MHz)	100		MHz





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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