

Micro Commercial Components

Features

- Capable of 1.5Watts of Power Dissipation.
- Collector-current 500mA
- Collector-base Voltage 80V
- Operating and storage junction temperature range: -55°C to +150°C

CA 91311

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- Marking:MPSA55,MPSA56
- 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

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	80	V
V _{CBO}	Collector-Base Voltage	80	V
V _{EBO}	Emitter-Base Voltage	4.0	V
l _c	Collector Current Continuous	500	mA
PD	Total Device Dissipation @T _A =25 ^o C Derate above 25 ^o C	625 5.0	mW mW/ ^o C
P _D	Total Device Dissipation @T _A =25 ^o C Derate above 25 ^o C	1.5 12	W mW/ ^o C
Tj	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

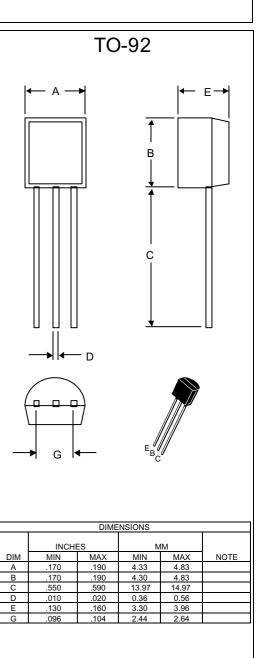
Electrical Characteristics @ 25°C Unless Otherwise SpecifiedSymbolParameterMinMaxUnits

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OFF CHARA	CTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage ⁽¹⁾ (E=1.0mAdc, I _B =0) MPSA55 MPSA56	60 80		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (l _E =100uAdc, l _C =0)	4.0		Vdc
I _{CES}	Collector Cutoff Current (V _{CE} =60Vdc, _b =0)		0.1	uAdc
сво	Collector Cutoff Current (V _{CB} =60Vdc, ⊧=0) MPSA55 (V _{CB} =80Vdc, ⊧=0) MPSA56		0.1 0.1	uAdc
ON CHARAC	TERISTICS ⁽¹⁾			
h _{FE(1)}	DC Current Gain (t _c =10mAdc, V _{ce} =1.0Vdc)	100		
h _{FE(2)}	DC Current Gain (t=100mAdc, V _{CE} =1.0Vdc)	100		
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =100mAdc, I _B =10mAdc)		0.25	Vdc
V _{BE(on)}	Base-Emitter Saturation Voltage (t _c =100mAdc, V _{ce} =1.0Vdc)		1.2	Vdc
SMALL-SIGI	IAL CHARACTERISTICS			
f _T	Current-Gain – Bandwidth Product ⁽³⁾ (L=100mAdc, V _{CE} =1.0Vdc, f=100MHz) MPSA55 MPSA56	50		MHz



PNP Silicon Amplifier Transistor



1. Pulse Test: Pulse Width<300us, Duty Cycle<2.0%

2. f_T is defined as the frequency at which |h_{fe}| extrapolates to unity.

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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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