

Micro Commercial Components



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MPSA55 MPSA56

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
- 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
P _D	Total Device Dissipation @T _A =25°C	625	mW
	Derate above 25°C	5.0	mW/ ^o C
P_{D}	Total Device Dissipation @T _A =25°C	1.5	W
	Derate above 25°C	12	mW/°C
TJ	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	οС

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown (b=1.0mAdc, l _B =0)	Voltage ⁽¹⁾ MPSA55 MPSA56	60 80		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (_E =100uAdc, I _C =0)		4.0		Vdc
I _{CES}	Collector Cutoff Current (V _{CE} =60Vdc, $\frac{1}{6}$ =0)			0.1	uAdc
Сво	Collector Cutoff Current (V _{CB} =60Vdc, ½=0) (V _{CB} =80Vdc, ½=0)	MPSA55 MPSA56		0.1 0.1	uAdc

ON CHARACTERISTICS (1)

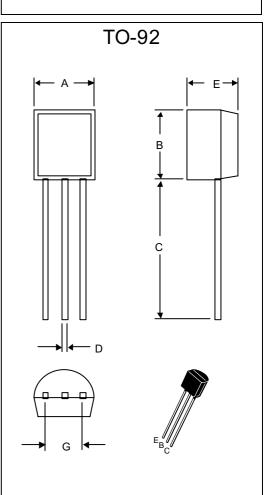
h _{FE(1)}	DC Current Gain			
	(b=10mAdc, Vce=1.0Vdc)	100		
h _{FE(2)}	DC Current Gain			
	(b=100mAdc, Vce=1.0Vdc)	100		
V _{CE(sat)}	Collector-Emitter Saturation Voltage			
(3.7)	(l _c =100mAdc, l _B =10mAdc)		0.25	Vdc
$V_{BE(on)}$	Base-Emitter Saturation Voltage			
(,	(k=100mAdc, V _{CE} =1.0Vdc)		1.2	Vdc

SMALL-SIGNAL CHARACTERISTICS

f _T	Current-Gain – Bandwidth Product ⁽³⁾ (b=100mAdc, V _{CE} =1.0Vdc,			
	f=100MHz)	MPSA55 MPSA56	50	MHz

- 1. Pulse Test: Pulse Width<300us, Duty Cycle<2.0%
- f_T is defined as the frequency at which |h_{fe}| extrapolates to unity.

PNP Silicon Amplifier Transistor



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
O	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Е	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	



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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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