Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

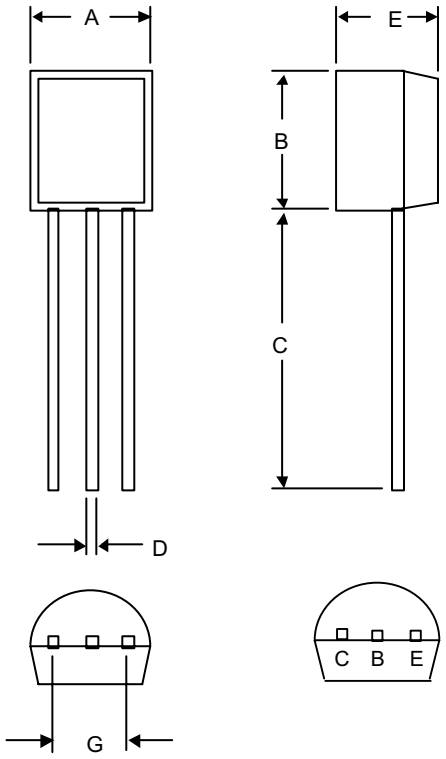
MPSA55
MPSA56

PNP Silicon Amplifier Transistor

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)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

TO-92



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
I_C	Collector Current Continuous	500	mA
P_D	Total Device Dissipation @T_A=25°C Derate above 25°C	625 5.0	mW mW/°C
P_D	Total Device Dissipation @T_A=25°C Derate above 25°C	1.5 12	W mW/°C
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage[1] (I_C=1.0mAdc, I_B=0)	MPSA55 MPSA56	60 80		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I_E=100uAdc, I_C=0)		4.0		Vdc
I_{CES}	Collector Cutoff Current (V_{CE}=60Vdc, I_B=0)			0.1	uAdc
I_{CBO}	Collector Cutoff Current (V_{CB}=60Vdc, I_E=0) (V_{CB}=80Vdc, I_E=0)	MPSA55 MPSA56		0.1 0.1	uAdc
ON CHARACTERISTICS [1]					
$h_{FE(1)}$	DC Current Gain (I_C=10mAdc, V_{CE}=1.0Vdc)		100		
$h_{FE(2)}$	DC Current Gain (I_C=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 (I_C=100mAdc, V_{CE}=1.0Vdc)			1.2	Vdc
SMALL-SIGNAL CHARACTERISTICS					
f_T	Current-Gain – Bandwidth Product[3] (I_C=100mAdc, V_{CE}=1.0Vdc, f=100MHz)	MPSA55 MPSA56	50		MHz

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.

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel;2Kpcs/Box
(Part Number)-BP	Bulk;1Kpcs/Bag

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

*****APPLICATIONS DISCLAIMER*****

Products offer by *Micro Commercial Components Corp*. are not intended for use in Medical, Aerospace or Military Applications.