

Micro Commercial Components



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MPSA55 MPSA56

Features

- Halogen free available upon request by adding suffix "-HF"
- 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
- Moisture 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 _C =25 ^o 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 (ڸ=100µAdc, l _c =0)		4.0		Vdc
I _{CES}	Collector Cutoff Current (V _{CE} =60Vdc, $\frac{1}{6}$ =0)			0.1	μAdc
Сво	Collector Cutoff Current (V _{CB} =60Vdc, ½=0) (V _{CB} =80Vdc, ½=0)	MPSA55 MPSA56		0.1 0.1	μAdc

ON CHARACTERISTICS [1]

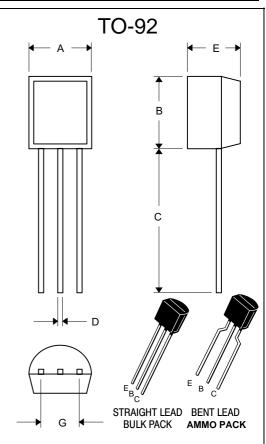
h _{FE(1)}	DC Current Gain			
. ,	(b=10mAdc, Vce=1.0Vdc)	100		
h _{FE(2)}	DC Current Gain			
. ,	(b=100mAdc, V _{CE} =1.0Vdc)	100		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
. ,	(l _c =100mAdc, l _B =10mAdc)		0.25	Vdc
V _{BE(on)}	Base-Emitter Saturation Voltage			
()	(h=100mAdc, V _{CE} =1.0Vdc)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

SMALL-SIGNAL CHARACTERISTICS

f _⊤	Current-Gain – Bandwidth Product ⁽³⁾ (L=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.

PNP Silicon Amplifier Transistor

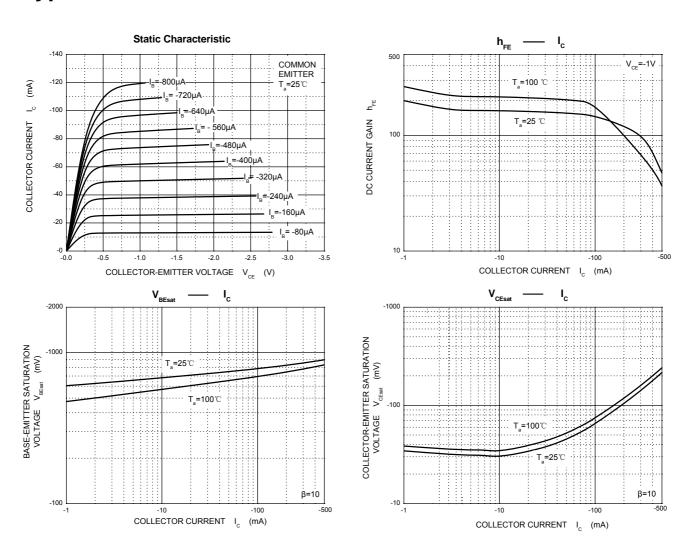


DIMENSIONS					
	INCHE	ES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
O	.500		12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

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

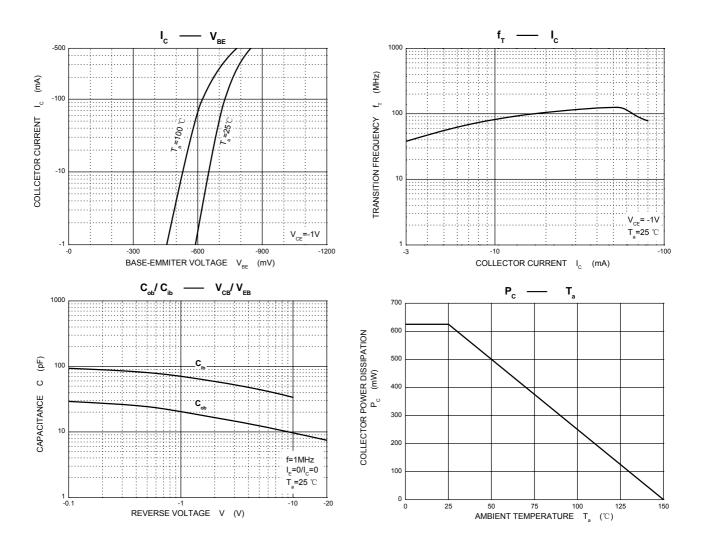


Typical Characterisitics





Typical Characterisitics





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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MMUN2217LT1G FP101-TL-E RN1607(TE85L,F) DRC9A14E0L DTA124GKAT146 DTA144WETL DTA144WKAT146
DTC113EET1G DTC115TETL DTC115TKAT146 DTC124TETL DTC144ECA-TP DTC144VUAT106 MUN5241T1G
BCR158WH6327XTSA1 NSBA114TDP6T5G NSBA143TF3T5G NSBA143ZF3T5G NSBC114EF3T5G NSBC114YF3T5G
NSBC123TF3T5G NSBC143TF3T5G NSVMUN2212T1G NSVMUN5111DW1T3G NSVMUN5314DW1T3G NSVUMC2NT1G
SMMUN2134LT1G SMUN2212T1G SMUN5235T1G SMUN5330DW1T1G SSVMUN5312DW1T2G 2SC3650-TD-E RN1303(TE85L,F)
RN4605(TE85L,F) BCR135SH6327XT TTEPROTOTYPE79 UMC3NTR DTA113EET1G EMA2T2R EMH15T2R SDTA114YET1G
SMMUN2111LT3G SMMUN2113LT1G SMMUN2114LT1G SMMUN2211LT3G SMUN2214T3G SMUN5113DW1T1G
SMUN5335DW1T1G NSBA114YF3T5G NSBC114TF3T5G