

Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC) MPSA05-AP

For any questions, you can email us directly: sales@integrated-circuit.com

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Micro Commercial Components



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MPSA05

Features

- This device is designed for use as general purpose amplifiers and switches requiring collector currents to 300mA
- 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
- Marking:MPSA05
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	60	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	4.0	V
Ι _C	Collector Current, Continuous	500	mA
T_J	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Thermal Characteristics

Symbol	Rating	Max	Unit
P _D	Total Device Dissipation	625	mW
	Derate above 25°C	5.0	mW/°C
R _{IC}	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

Parameter

UFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* 60			
	$(l_c=1.0 \text{mAdc}, l_B=0)$			
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	4.0		Vdc
	(<u></u> =100ì Adc, l _C =0)			
ρεο	Collector Cutoff Current 0.1		uAdc	
	(V _{CE} =60Vdc, b=0)			
I _{CBO}	Emitter Cutoff Current		0.1	uAdc
	(V _{CB} =60Vdc,			

ON CHARACTERISTICS

Symbol

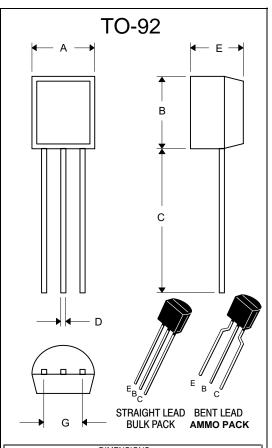
h _{FE}	DC Current Gain			
	(V _{CE} =1.0Vdc,	100		
	(V _{CE} =1.0Vdc,	100		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		0.25	Vdc
	(l _c =100mAdc, l _B =10mAdc)			
$V_{BE(on)}$	Base-Emitter On Voltage		1.2	Vdc
	(l _c =100mAdc, V _{CE} =1.0Vdc)			

Small Signal Characteristics

f _T Current Gain Bandwidth Product		100	 MHz
	(I _C =10mAdc, V _{CE} =2.0Vdc, f=100MHz)		

^{*} Pulse Test: Pulse Width<300us, Duty Cycle<2.0%

NPN General Purpose Amplifier



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.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.

Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of MPSA05-AP - TRANS NPN 60V 0.625A TO-92

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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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