

Micro Commercial Components

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

MPSA63 MPSA64

Features

- Capable of 1.5Watts of Power Dissipation
- Collector Current –500mA
- Operating Junction Temperature Range: -55℃ to +150℃
- 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 Marking:MPSA63,MPSA64

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{CBO}	Collector-Base Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-10	V
I _C	Collector Current, Continuous	-500	mA
TJ	Operating Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Thermal Characteristics

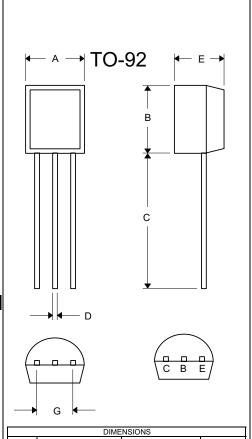
Symbol	Rating	Max	Unit
PD	Total Device Dissipation @ T _A =25°C	625	mW
	Derate above 25°C 5.0		mW/°C
PD	Total Device Dissipation @ T _A =25℃	1.5	Watts
	Derate above 25°C	12	mW/°C
R _{eJC}	Thermal Resistance, Junction to Case 83.3		°C/W
R _{0JA}	Thermal Resistance, Junction to Ambient 200 °C/		°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _c =-100µAdc,V _{BE} =0)	-30		Vdc
I _{CBO}	Collector Cutoff Current (V _{CB} =-30c, I _E =0)		-100	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-0Vdc, I _C =0)		-100	nAdc

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

PNP Darlington Transistor



ΜN

MAX

4.83

4.83 14.97

0.56

3.96

2.64

MIN

4.33

4.30

13.97

0.36

3.30

2.44

INCHES

MAX

.190

.190

.590

160

104

MIN

.170

.170

.550

.010

130

.096

DIM

A B

С

D

F

G

www.mccsemi.com

NOTE



Micro Commercial Components

Symbol	Parameter		Min	Тур	Max	Units
ON CHA	RACTERISTICS					
h _{FE}	DC Current Gain (V _{CE} =-5.0Vdc, I _C =-10mAdc)	MPSA63 MPSA64	5000 10000			
	(V _{CE} =-5.0Vdc, I _C =-100mA)	MPSA63 MPSA64	10000 20000			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =-100mAdc, I _B =-0.1mAdc)				-1.5	Vdc
V _{BE(on)}	Base-Emitter On Voltage (I _c =-100mAdc, V _{CE} =-5.0Vdc)				-2.0	Vdc
SMALL-	SIGNAL CHARACTERISTICS					
f⊤	Current-GainBandwidth Product ⁽²⁾ (V _{CE} =-5.0Vdc, f=100MHz,I _C =-100mAdc)		125			MHz

Pulse Test: Pulse Width<300us, Duty Cycle<2.0%
f_T=h_{fe}×f_{tes}t





Ordering Information

Device	Packing
(Part Number)-AP	Tape&Reel2Kpcs/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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems

without the expresse written approval of Micro Commercial Components Corporation.

www.mccsemi.com