

M-Pulse Microwave

8-Volt, NPN Transistor Medium Power

MP4T80200

Features

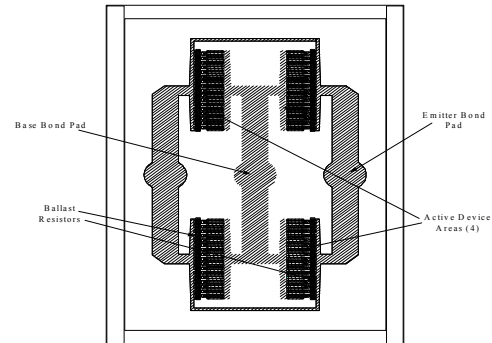
- High Performance at $V_{CE} = 8V$
- 1.0 watts Class C at 900 MHz
- High f_T (6GHz)

Description

The MP4T80200 series of our medium power high gain npn transistor has a power output of 1.0 watts at 900 MHz when operated in a class C environment. The typical applied voltage is from 6 to 10 volts, collector to emitter, with a 600mA max collector current.

The MP4T802 family of transistors is available in chip (MP4T80200), 200mil BEO (MP4T802-510).

Die Outline MP4T80200



Die size = 450 X 750 uM

Bottom of die is collector.

Specification Subject to Change Without Notice

M-Pulse Microwave

1

576 Charcot Avenue, San Jose, California 95131

Tel (408) 432-1480

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Electrical Specifications at 25°C

Symbol	Parameters	Test Conditions	Units	MP4T80200 Chip	MP4T802510 200mil BEO
f_T	Gain Bandwidth Product	$V_{CE} = 8V$ $I_C = 100$ mA	GHz	6 typ.	4 Typ
P out	Power Output Class C	$V_{CE} = 8V$ $I_C = 420$ mA $f = .9$ GHz	W	1.0 typ.	1.0 typ.

Maximum Ratings at 25°C

Parameter	Symbol	Maximum Rating
Collector Base Voltage	V_{CBO}	25 V
Collector-Emitter Voltage	V_{CEO}	12 V
Emitter-Base Voltage	V_{EBO}	1.5 V
Collector Current	I_C	600 mA
Junction Temperature	T_j	200°C
Storage Temperature Chips or Ceramic Packages Plastic Packages	T_{STG}	-65°C to +200°C -65°C to +125°C
Power Dissipation	P_D	6.0W ¹

Electrical Specifications at 25°C

Parameters	Conditions	Symbol	Min.	Typ.	Max.	Units
Collector Cut-off Current	$V_{CB} = 8 V$ $I_E = 0$	I_{CBO}	—	—	100	nA
Emitter Cut-off Current	$V_{EB} = 1 V$ $I_C = 0$	I_{EBO}	—	—	1	μA
Forward Current Gain	$V_{CE} = 8 V$ $I_C = 200$ mA	h_{FE}	20	100	200	—

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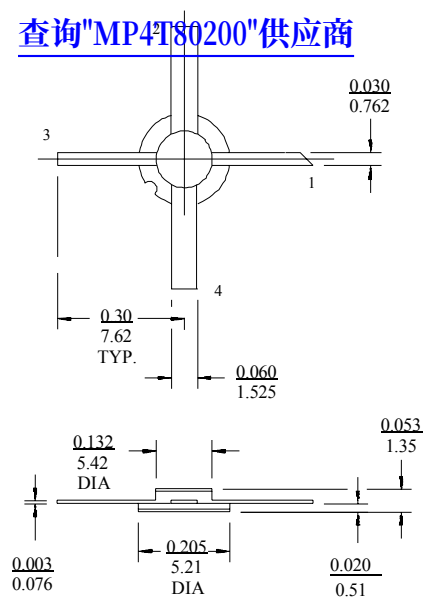
2

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[查询"MP4T80200"供应商](#)



Notes: (unless otherwise specified)

1. Dimensions are in / mm
2. Tolerance: in .xxx = ± 0.005 ; mm .xx = ± 0.13

Pin Configuration

Pin Number	Pin Description
1	Collector
2 & 4	Emitter
3	Base

Ordering Information

Model No.	Package
MP4T802510	BeO Ceramic

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3

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