



AMPLIFIER TRANSISTOR

T-27-21

General purpose p-n-p transistors in TO-92 envelopes. The complementary types are MPS6513 to MPS6515.

QUICK REFERENCE DATA

			MPS6517	6518	6519
Collector-emitter voltage	$-V_{CEO}$	max.	40	40	25 V
Collector current (d.c.)	$-I_C$	max.	100	100	100 mA
D.C. current gain	h_{FE}	>	60	90	150
Total power dissipation up to $T_{amb} = 25^\circ C$		P_{tot} max.	625		mW

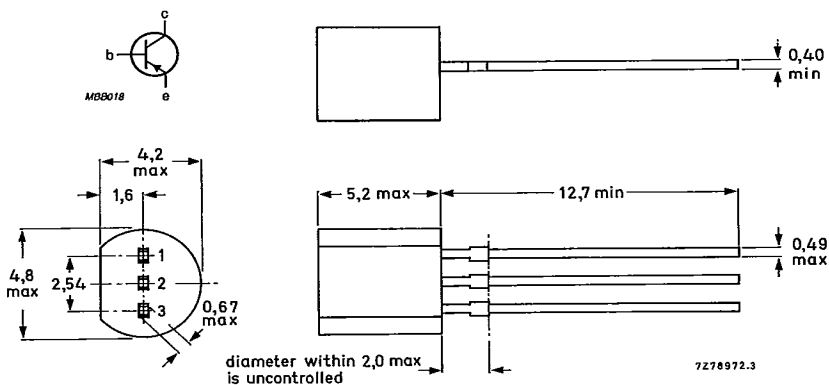
MECHANICAL DATA

Dimensions in mm

Fig. 1 TO-92.

Pinning;

- 1 = collector
- 2 = base
- 3 = emitter



MPS6517
MPS6518
MPS6519

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RATINGS

Limiting values in accordance with the Absolute Maximum System (IEC 134)

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			MPS6517	6518	6519
Collector-emitter voltage	$-V_{CEO}$	max.	40	40	25 V
Collector-base voltage	$-V_{CBO}$	max.	40	40	25 V
Emitter-base voltage	$-V_{EBO}$	max.		4,0	V
Collector current (d.c.)	$-I_C$	max.		100	mA
Total power dissipation up to $T_{amb} = 25^{\circ}C$	P_{tot}	max.		625	mW
Storage temperature range	T_{stg}			-65 to +150	$^{\circ}C$
Junction temperature	T_j	max.		150	$^{\circ}C$

THERMAL RESISTANCE

From junction to ambient in free air	$R_{th\ j-a}$	=		200	K/W
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CHARACTERISTICS

$T_j = 25^{\circ}C$ unless otherwise specified

			MPS6517	6518	6519
Collector-emitter breakdown voltage $-I_C = 0,5\text{ mA}; I_B = 0$	$-V_{(BR)CEO}$	>	40	40	25 V
Emitter-base breakdown voltage $-I_E = 10\text{ }\mu A; I_C = 0$	$-V_{(BR)EBO}$	>	4,0	4,0	4,0 V
Collector cut-off current $-V_{CB} = 30\text{ V}; I_E = 0$	$-I_{CBO}$	<	50	50	— nA
$-V_{CB} = 20\text{ V}; I_E = 0$	$-I_{CBO}$	<	—	—	50 nA
D.C. current gain $-I_C = 2\text{ mA}; -V_{CE} = 10\text{ V}$	h_{FE}	=	90 to 180	150 to 300	250 to 500
$-I_C = 100\text{ mA}; -V_{CE} = 10\text{ V}$	h_{FE}	>	60	90	150
Collector-emitter saturation voltage $-I_C = 50\text{ mA}; -I_B = 5\text{ mA}$	$-V_{CEsat}$	<		0,5	V
Output capacitance $-V_{CB} = 10\text{ V}; I_E = 0; f = 100\text{ kHz}$	C_{obo}	<		3,5	pF