

T-27-90

PLASTIC-CASE BIPOLAR TRANSISTORS

PNP Transistors

'MPS' Device Types

ELECTRICAL CHARACTERISTICS at T_A = 25°C

Device Type	I _C Max. (mA)	V _{(BR)CBO} (V)	V _{(BR)CEO} (V)	V _{(BR)EBO} (V)	I _{CBO}		DC Current Gain				V _{CE(sat)}		f _T		C _{ob} ¹ (pF)	t _s ¹ (ns)	NF ¹ (dB)	Process
					Max. (nA)	@V _{CB} (V)	h _{FE} Min.	h _{FE} Max.	@I _C (mA)	@V _{CE} (V)	Max. (V)	@I _C (mA)	Min. (MHz)	@I _C (mA)				
MPS404	150	25	24	12	100	10	30	400	12	0.15	0.15	12	4.0	1.0	20	—	—	SHF
MPS404A	150	40	35	25	100	10	30	400	12	0.15	0.15	12	4.0	1.0	20	—	—	SHF
MPS3638	500	25	25	4.0	35	15	30	—	50	1.0	0.25	50	100	50	20	140	—	DDA
MPS3638A	500	25	25	4.0	35	15	100	—	50	1.0	0.25	50	150	50	10	140	—	DDA
MPS3702	500	40	25	5.0	100	20	60	300	50	5.0	0.25	50	100	50	12	—	—	JFA
MPS3703	500	50	30	5.0	100	20	30	150	50	5.0	0.25	50	100	50	12	—	—	JFA
MPS4248	100	40	40	5.0	10	40	50	—	0.1	5.0	0.25	10	40	0.5	6.0	—	2.0	BXE
MPS4249	100	60	60	5.0	10	40	100	300	0.1	5.0	0.25	10	40	0.5	6.0	—	3.0	BXE
MPS4250	100	40	40	5.0	10	50	250	700	0.1	5.0	0.25	10	40	0.5	6.0	—	2.0	BXE
MPS4250A	100	60	60	5.0	10	40	250	700	0.1	5.0	0.25	10	40	0.5	6.0	—	2.0	BXE
MPS4354	1000	60	60	5.0	50	50	50	500	10	10	0.15	150	100	50	30	—	3.0	DJC
MPS4355	1000	60	60	5.0	50	50	100	400	10	10	0.15	150	100	50	30	—	3.0	DJC
MPS4356	1000	80	80	5.0	50	50	50	250	10	10	0.15	150	100	50	30	—	3.0	DJC
MPS5138	100	30	30	5.0	50	20	50	800	0.1	10	0.3	10	30	0.5	7.0	—	—	BXE
MPS5139	100	20	20	5.0	50 ³	15	40	—	1.0	10	0.15	1.0	300	10	5.0	200	—	BTB
MPS6516	100	40	40	4.0	50	30	50	100	2.0	10	0.5	50	—	—	3.5	—	—	BTB
MPS6517	100	40	40	4.0	50	30	90	180	2.0	10	0.5	50	—	—	3.5	—	—	BXE
MPS6518	100	40	40	4.0	50	30	150	300	2.0	10	0.5	50	—	—	3.5	—	—	BXE
MPS6519	100	25	25	4.0	50	20	250	500	2.0	10	0.5	50	—	—	4.0	—	—	BXE
MPS6522	100	25	25	4.0	50	30	200	600	2.0	10	0.5	50	—	—	3.5	—	3.0	BXE
MPS6523	100	25	25	4.0	50	20	300	—	2.0	10	0.5	50	—	—	3.5	—	3.0	BXE
MPS6533	500	40	40	4.0	50	30	40	120	100	1.0	0.5	100	—	—	5.0	—	—	DDA
MPS6534	500	40	40	4.0	50	30	90	270	100	1.0	0.5	100	—	—	5.0	—	—	DDA
MPS6535	500	30	30	4.0	50	30	30	—	100	1.0	0.5	100	—	—	7.0	—	—	DDA
MPS6562	500	25	25	5.0	100	20	50	500	500	1.0	0.5	500	60	10	30	—	—	DJC
MPS6563	1000	25	25	5.0	100	20	50	200	350	1.0	0.5	350	60	10	30	—	—	DJC
MPS6651	1000	25	25	4.0	100	25	50	—	500	1.0	0.6	1000	100	50	30	250	—	DJC
MPS6652	1000	40	40	4.0	100	30	50	—	500	1.0	0.6	1000	100	50	30	250	—	DJC
MPS8093	200	40	40	5.0	100	20	100	300	50	2.0	0.25	50	—	—	—	—	—	JFA
MPS8598	800	60	60	6.0	100	60	100	300	1.0	5.0	0.3	100	150	10	8.0	—	—	JMA
MPS8599	800	80	80	5.0	100	80	100	300	1.0	5.0	0.3	100	150	10	8.0	—	—	JMA
MPSA55	800	60	60	4.0	100	60	50	—	100	1.0	0.25	100	50	100	—	—	—	JMA
MPSA56	800	80	80	4.0	100	80	50	—	100	1.0	0.25	100	50	100	—	—	—	JMA
MPSA62	500	20	20	10	100	15	5K	—	10	5.0	1.0	10	125	100	—	—	—	SRB
MPSA63	500	30	30	10	100	30	10K	—	10	5.0	2.0	100	125	100	—	—	—	SRB
MPSA64	500	30	30	10	100	30	20K	—	10	5.0	2.0	100	125	100	—	—	—	SRB
MPSA70	100	—	40	4.0	100	30	40	100	5.0	10	0.25	10	125	5.0	4.0	—	—	BXE
MPSA75	500	—	40 ³	10	100	30	10K	—	10	5.0	1.5	100	125	10	—	—	—	BOB
MPSA76	500	—	50 ³	10	100	40	10K	—	10	5.0	1.5	100	125	10	—	—	—	BOB
MPSA77	500	—	60 ³	10	100	50	10K	—	10	5.0	1.5	100	125	10	—	—	—	BOB
MPSA92	500	300	300	5.0	250	200	25	—	30	10	0.5	20	50	10	6.0	—	—	BMA
MPSA93	500	200	200	5.0	250	160	25	—	30	10	0.5	20	50	10	8.0	—	—	BMA

NOTES:

- 1) Maximum at typical JEDEC conditions.
- 2) μA.

- 3) V_{(BR)CES}/I_{CES}, as applicable.
- 4) mA.
- 5) V_{(BR)CER} at R = 10Ω.