

8514019 SPRAGUE. SEMICONDS/ICS

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T-27-90

PLASTIC-CASE BIPOLAR TRANSISTORS

NPN 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)				
MPS3721	500	—	—	—	500	18	60	660	2.0	10	—	—	—	—	—	—	—	JGA
MPS3826	200	60	45	4.0	100	30	40	160	10	10	—	—	200	10	3.5	—	—	FEE
MPS3827	200	60	45	4.0	100	30	100	400	10	10	—	—	200	10	3.5	—	—	FEE
MPS5127	100	20	12	3.0	50	10	15	300	2.0	10	0.3	10	—	—	—	—	—	FFB
MPS5131	200	20	15	3.0	50	10	30	500	10	1.0	1.0	10	—	—	—	—	—	FEE
MPS5132	200	20	20	3.0	50	10	20	—	10	10	2.0	10	200	10	—	—	—	FEE
MPS5133	200	20	18	3.0	50	15	60	1000	1.0	5.0	—	—	—	—	—	—	—	FEE
MPS5135	800	30	25	4.0	300	15	50	600	10	10	1.0	100	40	30	25	—	—	JLA
MPS5136	800	30	20	3.0	100	20	20	400	150	1.0	0.25	150	40	50	35	—	—	JLA
MPS5137	800	30	20	3.0	100	20	20	400	150	1.0	0.25	150	40	50	35	—	—	JLA
MPS5172	500	25	25	5.0	100	25	100	500	10	10	0.25	10	—	—	10	—	—	JGA
MPS5305	500	25	25	12	100	25	2k	20k	2.0	5.0	1.4	200	60	2.0	10	—	—	TPM
MPS5306	500	25	25	10	100	25	7k	70k	2.0	5.0	1.4	200	60	2.0	10	—	—	TPM
MPS6512	200	40	30	4.0	50	30	50	100	2.0	10	0.5	50	—	—	3.5	—	—	FEE
MPS6513	200	40	30	4.0	50	30	90	180	2.0	10	0.5	50	—	—	3.5	—	—	FEE
MPS6514	200	40	25	4.0	50	30	150	300	2.0	10	0.5	50	—	—	3.5	—	—	FEE
MPS6515	200	40	25	4.0	50	30	250	500	2.0	10	0.5	50	—	—	3.5	—	—	FEE
MPS6520	200	40	25	4.0	50	30	200	400	2.0	10	0.5	50	—	—	3.5	—	3.0	FEE
MPS6521	200	40	25	4.0	50	30	300	600	2.0	10	0.5	50	—	—	3.5	—	3.0	FEE
MPS6530	500	60	40	5.0	50	40	40	120	100	1.0	0.5	100	—	—	5.0	—	—	DCA
MPS6531	500	60	40	5.0	50	40	90	270	100	1.0	0.5	100	—	—	5.0	—	—	DCA
MPS6532	500	50	30	5.0	100	30	30	—	100	1.0	0.5	100	—	—	5.0	—	—	DCA
MPS6541	50	30 ³	20	4.0	50	15	25	—	4.0	10	—	—	600	4.0	1.7	—	—	DMA
MPS6560	1000	25	25	5.0	100	20	50	200	500	1.0	0.5	500	—	—	30	—	—	DID
MPS6561	1000	25	20	5.0	100	20	50	200	350	1.0	0.5	350	—	—	30	—	—	DID
MPS6564	200	—	45	5.0	500	40	25	—	10	5.0	0.5	10	—	—	4.0	—	—	FEE
MPS6565	200	60	45	4.0	100	30	40	160	10	10	0.4	10	200	10	3.5	—	—	FEE
MPS6566	200	60	45	4.0	100	30	100	400	10	10	0.4	10	200	10	3.5	—	—	FEE
MPS6571	200	20	20	3.0	50	20	250	1000	0.1	5.0	0.5	10	100	0.5	4.5	—	—	FEE
MPS6573	200	—	35	—	100	35	200	500	10	5.0	0.5	10	100	10	12	—	—	FEE
MPS6574	200	—	35	—	100	35	100	300	1.0	5.0	0.5	10	100	10	12	—	—	FEE
MPS6575	200	—	45	—	100	45	200	500	10	5.0	0.5	10	100	10	12	—	—	FEE
MPS6576	200	—	45	—	100	45	100	300	1.0	5.0	0.5	10	100	10	12	—	—	FEE
MPS6601	1000	25	25	4.0	100	25	50	—	500	1.0	0.6	1000	100	50	30	250	—	DID
MPS6602	1000	30	40	4.0	100	25	50	—	500	1.0	0.6	1000	100	50	30	250	—	DID
MPS8097	200	60	40	6.0	30	40	250	700	0.1	5.0	—	—	—	—	4.0	—	2.0	FEE
MPS8098	800	60	60	6.0	100	60	100	300	1.0	5.0	0.3	100	150	10	8.0	—	—	JLA
MPS8099	800	80	80	5.0	100	80	100	300	1.0	5.0	0.3	100	150	10	8.0	—	—	JLA
MPSA05	800	60	60	4.0	100	60	50	—	100	1.0	0.25	100	100	10	—	—	—	JLA
MPSA06	800	80	80	4.0	100	80	50	—	100	1.0	0.25	100	100	10	—	—	—	JLA
MPSA09	200	50	50	—	100	30	100	600	0.1	5.0	0.9	10	30	0.5	5.0	—	—	FEE
MPSA10	200	—	40	4.0	100	30	40	400	5.0	10	—	—	125	5.0	4.0	—	—	VRB

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.