

[Leaded type]

●TO-92 / NPN type

General purpose small signal amplifiers



TO-92 package

Product name	Pin arrangement	BV _{CBO} Min. (V)	BV _{CEO} Min. (V)	BV _{EBO} Min. (V)	I _{CBO} Max. (nA)	@V _{CB} (V)	h _{FE}		@I _C @V _{CE} (mA) (V)	V _{CE} (sat) V _{BE} (sat)			Cob Max. (pF)	f _r Min. (MHz)	@I _C (mA)	NF (dB)	I _C Max. (mA)	DIE NO.
							Min.	Max.		Max. (V)	Max. (V)	@I _C (mA)						
2N2925	ECB	25	25	5	100	25	235	470	2 10			10	160 (Typ.)			200	C22	
2N5232A	ECB	70	50	5	100	50	250	500	2 5	0.125		10	4			5	100	C22
MPS8097	EBC	60	40	6	30 10 μ	40 60	250	700	0.1 5	0.65 (V _{BE(ON)})		100	4	200	10	2	100	C22
MPSA20	EBC	40	40	4	100	30	40	400	5 10	0.25		10	4	125	5		100	C22
MPS8098	ECB	60	60	6	100	60	100	300	1 5	0.4 0.3		100	6	150	10		200	C22
PN918	ECB	30	15	3	100	15	20		3 1	0.4 1		1	3	600	4	6	50	C33
RJE9014C	ECB	—	40	—	—	—	60	1000	— —	— —	— —	—	—	—	—	—	150	C22
RJE9018G	ECB	—	19	—	—	—	72	146	— —	— —	— —	—	—	—	—	—	50	C33

General purpose amplification and switching

Product name	Pin arrangement	BV _{CBO} Min. (V)	BV _{CEO} Min. (V)	BV _{EBO} Min. (V)	I _{CBO} Max. (nA)	@V _{CB} (V)	h _{FE}		@I _C @V _{CE} (mA) (V)	V _{CE} (sat) V _{BE} (sat)		Cob Max. (pF)	f _r Min. (MHz)	@I _C (mA)	t _{off} Max. (ns)	I _C Max. (mA)	DIE NO.	
							Min. Max.	Max. (V)		Max. (V)	@I _C (mA)							
PN2222A	EBC	75	40	6	100	60	35		0.1 10	0.3 1	1.2 2	150 500	8	250	20	285	600	C31
							50		1.0 10									
							75	300	10 10									
							100		150 10									
							50		150 1									
							30		500 10									
2N3904	EBC	60	40	6	50 (I _{CEX})	30	40		0.1 1	0.2 0.3	0.85 0.95	10 50	4	300	10	250	200	C37
							70	300	1 1									
							150		10 1									
							60		50 1									
							30		100 1									
2N4401	EBC	60	40	6	50	30	20		0.1 1	0.4 0.75	0.95 1.2	150 50	6.5	250	20	225	600	C31
							40		1 1									
							80	300	10 1									
							100		150 1									
							40		500 2									
MPS6515	EBC	40	25	4	50	30	250 500	2 10	0.5		50	3.5	250	10	NF 2dB	100	C22	
							150	100 10										
MPS6531	EBC	60	40	5	50	40	60	10 1	0.3	1.0	100	5	390 Typ.			600	C31	
							90	270										100 1
							50											500 10

Medium power amplification

Product name	Pin arrangement	BV _{CBO} Min. (V)	BV _{CEO} Min. (V)	BV _{EBO} Min. (V)	I _{CBO} Max. (nA)	@V _{CB} (V)	h _{FE}		V _{CE} (sat) V _{BE} (sat)			Cob Max. (pF)	f _r Min. (MHz)	@I _C (mA)	t _{off} Max. (ns)	I _C Max. (mA)	DIE NO.		
							Min.	Max.	@I _C @V _{CE} (mA) (V)	Max. (V)	Max. (V)							@I _C (mA)	
MPSA06	EBC	80	80	4	100	80	100	100	10	1	0.25		100		50	10		500	D16
2N5551	EBC	180	160	6	50		56	270	10	5	0.2	1	1	6	50		600	C329	

Darlington pair type

Product name	Pin arrangement	BV _{CBO} Min. (V)	BV _{CEO} Min. (V)	BV _{EBO} Min. (V)	I _{CBO} Max. (nA)	@V _{CB} (V)	h _{FE}		@I _C @V _{CE} (mA) (V)	V _{CE} (sat) V _{BE} (sat)		Cob Max. (pF)	f _r Min. (MHz)	@I _C (mA)	NF Max. (dB)	I _C Max. (mA)	DIE NO.
							Min.	Max.		Max. (V)	Max. (V)						
2N6426	EBC	40	40	12	50	30	20k	200k	10 5	1.2 1.5	2	5 500	7		10	500	D25
							30k	300k	100 5								
							20k	200k	500 5								
MPSA13	EBC	(V _{CEs}) 30		10	100	30	5k		10 5	1.5		100	10	125	10	500	D25
							10k		100 5								
MPSA28	EBC	(V _{CEs}) 80		12	100	60	10k		10 5	1.5		100	8	125	10	500	D69
							10k		100 5								
MPSA29	EBC	(V _{CEs}) 100		12	100	80	10k		10 5	1.2		10	8	125	10	500	D69
							10k		100 5								

Note: TO-92 will be shipped to any country other than Japan.