

USA/European Specification Models
● TO-92 Package / NPN Type

For General Purpose Small Signal Amplifiers

Part No.	Package	BV _{CEO} Min.	BV _{CE0} Min.	BV _{EBO} Min.	I _{CBO} Max.	@V _{CB}	h _{FE} Min. Max.	@I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	Cob Max.	f _T Min.	@ I _C	NF	I _C Max.	DIE NO.
2N2925	TO-92 (ECB)	25V	25V	5V	100nA	25V	235 470	2.0mA 10V				10pF	160MHz Typ.			200mA	C22
2N5232A	TO-92 (ECB)	70V	50V	5V	100nA	50V	250 500	2mA 5V	0.125V		10mA	4pF			5dB	100mA	C22
MPS8097	TO-92 (EBC)	60V	40V	6V	30nA	40V	250 700	100 μA 5V	0.65V (V _{BE(on)})		100mA	4pF	200MHz 10mA		2dB	100mA	C22
MPSA20	TO-92 (EBC)	40V	40V	4V	100nA	30V	40 400	5mA 10V	0.25V		10mA	4pF	125MHz 5mA			100mA	C22
MPS8098	TO-92	60V	60V	6V	100nA	60V	100 300	1mA 5V	0.4V	0.3V	100mA	6pF	150MHz 10mA			200mA	C22
PN918	TO-92	30V	15V	3V	100nA	15V	20	3mA 1V	0.4V	1.0V	1mA	3pF	600MHz 4mA		6dB	50mA	C33
RJE9014C	TO-92	-	40V	-	-	-	60 1000									150mA	C22
RJE9018G	TO-92	-	19V	-	-	-	72 146									50mA	C33

For Central Purpose Amplification and Switching

Part No.	Package	BV _{CEO} Min.	BV _{CE0} Min.	BV _{EBO} Min.	I _{CBO} Max.	@V _{CB}	h _{FE} Min. Max.	@I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	Cob Max.	f _T Min.	@ I _C	NF	I _C Max.	DIE NO.
PN2222A	TO-92 (EBC)	75V	40V	6V	100nA	60V	35	0.1mA 10V	0.3V	1.2V	150mA	8pF	250MHz 20mA	285ns	600mA	C31	
							50	1.0mA 10V									
							75 300	10mA 10V									
							100	150mA 10V									
							50	150mA 1V									
30	500mA 10V																
2N3904	TO-92 (EBC)	60V	40V	6V	50nA	30V (CEX)	40	0.1mA 1V	0.2V	0.85V	10mA	4pF	300MHz 10mA	250ns	200mA	C37	
							70 300	1.0mA 1V									
							150	10mA 1V									
							60	50mA 1V									
							30	100mA 1V									
2N4401	TO-92 (EBC)	60V	40V	6V	50nA	30V	20	0.1mA 1V	0.4V	0.95V	150mA	6.5pF	250MHz 20mA	225ns	600mA	C31	
							40	1mA 1V									
							80 300	10mA 1V									
							100	150mA 1V									
							40	500mA 2V									
MPS6515	TO-92 (EBC)	40V	25V	4V	50nA	30V	250 500	2mA 10V	0.5V		50mA	3.5pF	250MHz 10mA		NF 2dB	100mA	C22
MPS6531	TO-92 (EBC)	60V	40V	5V	50nA	40V	60	10mA 1V	0.3V	1.0V	100mA	5pF	390MHz Typ.		600mA	C31	
							90 270	100mA 1V									
							50	500mA 10V									

For Medium Power Amplification

Part No.	Package	BV _{CEO} Min.	BV _{CE0} Min.	BV _{EBO} Min.	I _{CBO} Max.	@V _{CB}	h _{FE} Min. Max.	@I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	Cob Max.	f _T Min.	@ I _C	f _{off} Max.	I _C Max.	DIE NO.
MPSA06	TO-92 (EBC)	80V	80V	4V	100nA	80V	100 100	10mA 1V 100mA 1V	0.25V		100mA		50MHz 10mA			500mA	D16
2N5551	TO-92 (EBC)	180V	160V	6V	50nA		56 270	10mA 5V	0.2V	1.0V	1mA	8pF	50MHz			600mA	C329

Darlington Pair Type

Part No.	Package	BV _{CEO} Min.	BV _{CE0} Min.	BV _{EBO} Min.	I _{CBO} Max.	@V _{CB}	h _{FE} Min. Max.	@I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	Cob Max.	f _T Min.	@ I _C	NF	I _C Max.	DIE NO.
2N6426	TO-92 (EBC)	40V	40V	12V	50nA	30V	20k 200k	10mA 5V	1.2V	2.0V	5mA	7pF		10dB	500mA	D25	
							30k 300k	100mA 5V									
							20k 200k	500mA 5V									
MPSA13	TO-92 (EBC)	(CES) 30V		10V	100nA	30V	5k	10mA 5V	1.5V		100mA	10pF	125MHz 10mA		500mA	D25	
							10k	100mA 5V									
MPSA28	TO-92 (EBC)	(CES) 80V		12V	100nA	60V	10k	10mA 5V	1.5V		100mA	8pF	125MHz 10mA		500mA	D69	
							10k	100mA 5V									
MPSA29	TO-92 (EBC)	(CES) 100V		12V	100nA	80V	10k	10mA 5V	1.2V		10mA	8pF	125MHz 10mA		500mA	D69	
							10k	100mA 5V									