

# Small Signal Transistors

## TO-92 Case (Continued)



TO-92

TYPE NO.	FAMILY	LEAD CODE	$V_{CBO}$	$V_{CEO}$	$V_{EBO}$	$I_{CBO} @ V_{CBO}$		$h_{FE}$		$V_{CE} @ I_C$	$I_C @ V_{CE}$	$V_{CE(SAT)} @ I_C$		$C_{ob}$	$f_T$	NF	$t_{off}$
			(V)	(V)	(V)	(nA)	(V)	MIN	$f_{T0}(1KHZ)$ MAX	(V)	(mA)	(V)	(mA)	(pF)	(MHz)	(dB)	
			MIN	* $V_{CES}$ MIN	MIN	* $I_{CES}$ ** $I_{CEV}$								* $C_{rb}$ MAX	*TYP MIN	MAX	MAX
MPS3710	NPN LOW NOISE	EBC	30	30	6.0	100	20	90	330	5.0	1.0	1.0	10	---	---	---	---
MPS3711	NPN LOW NOISE	EBC	30	30	6.0	100	20	180	660	1.0	1.0	1.0	10	---	---	---	---
MPS3721	NPN LOW NOISE	EBC	18	18	5.0	500	18	60	660	10	2.0	---	---	3.5	---	---	---
MPS3826	NPN AMPL/SWITCH	EBC	60	45	4.0	100	30	40	160	10	10	---	---	3.5	200	---	---
MPS3827	NPN AMPL/SWITCH	EBC	60	45	4.0	100	30	100	400	10	10	---	---	3.5	200	---	---
MPS5172	NPN LOW NOISE	EBC	25	25	5.0	100	25	100	500	10	10	0.25	10	10	120*	---	---
MPS5306	NPN DARLINGTON	EBC	25	25	12	100	25	7,000	70,000	5.0	2.0	1.40	200	10	60	---	---
MPS5308	NPN DARLINGTON	EBC	40	40	12	100	40	7,000	70,000	5.0	2.0	1.40	200	10	60	---	---
MPS6507	NPN RF OSC	EBC	30	20	3.0	50	15	25	---	10	2.0	---	---	2.5	700	---	---
MPS6511	NPN RF OSC	EBC	30	20	3.0	50	15	25	---	10	10	---	---	2.5	---	---	---
MPS6513	NPN AMPL/SWITCH	EBC	40	30	4.0	50	30	90	180	10	2.0	0.50	50	3.5	---	---	---
MPS6514	NPN AMPL/SWITCH	EBC	40	25	4.0	50	30	150	300	10	2.0	0.50	50	3.5	---	---	---
MPS6515	NPN AMPL/SWITCH	EBC	40	25	4.0	50	30	250	500	10	2.0	0.50	50	3.5	---	---	---
MPS6517	PNP AMPL/SWITCH	EBC	40	40	4.0	50	30	90	180	10	2.0	0.50	50	4.0	---	---	---
MPS6518	PNP AMPL/SWITCH	EBC	40	40	4.0	50	30	150	300	10	2.0	0.50	50	4.0	---	---	---
MPS6519	PNP AMPL/SWITCH	EBC	25	25	4.0	50	20	250	500	10	2.0	0.50	50	4.0	---	---	---
MPS6520	NPN LOW NOISE	EBC	40	25	4.0	50	30	200	400	10	2.0	0.50	50	3.5	---	3.0	---
MPS6521	NPN LOW NOISE	EBC	40	25	4.0	50	30	300	600	10	2.0	0.50	50	3.5	---	3.0	---
MPS6522	PNP LOW NOISE	EBC	25	25	4.0	50	20	200	400	10	2.0	0.50	50	3.5	---	3.0	---
MPS6523	PNP LOW NOISE	EBC	25	25	4.0	50	20	300	600	10	2.0	0.50	50	3.5	---	3.0	---
MPS6531	NPN AMPL/SWITCH	EBC	60	40	5.0	50	40	90	270	1.0	100	0.30	100	5.0	---	---	---
MPS6532	NPN AMPL/SWITCH	EBC	50	30	5.0	100	30	30	---	1.0	100	0.50	100	5.0	---	---	---
MPS6534	PNP AMPL/SWITCH	EBC	40	40	4.0	50	30	90	270	1.0	100	0.30	100	7.0	---	---	---
MPS6535	PNP AMPL/SWITCH	EBC	30	30	4.0	50	30	30	---	1.0	100	0.50	100	7.0	---	---	---
MPS6560	NPN AMPL/SWITCH	EBC	25	25	5.0	100	20	50	200	1.0	500	0.50	500	30	60	---	---
MPS6561	NPN AMPL/SWITCH	EBC	20	20	4.0	100	20	50	200	1.0	350	0.50	350	30	60	---	---
MPS6562	PNP AMPL/SWITCH	EBC	25	25	5.0	100	20	50	200	1.0	500	0.50	500	30	60	---	---
MPS6563	PNP AMPL/SWITCH	EBC	20	20	4.0	100	20	50	200	1.0	350	0.50	350	30	60	---	---
MPS6564	NPN AMPL/SWITCH	EBC	---	45	5.0	500	40	25	---	5.0	40	0.50	10	4.0	---	---	---
MPS6566	NPN AMPL/SWITCH	EBC	60	45	4.0	100	30	100	400	10	10	0.40	10	3.5	---	---	---
MPS8097	NPN LOW NOISE	EBC	60	40	6.0	30	40	250	5.0	0.10	---	---	---	4.0	---	2.0	---
MPS8098	NPN AMPL/SWITCH	EBC	60	60	6.0	100	60	100	300	5.0	1.0	0.30	100	6.0	150	---	---
MPS8099	NPN AMPL/SWITCH	EBC	80	80	6.0	100	80	100	300	5.0	1.0	0.30	100	6.0	150	---	---
MPS8598	PNP AMPL/SWITCH	EBC	60	60	5.0	100	60	100	300	5.0	1.0	0.30	100	6.0	150	---	---
MPS8599	PNP AMPL/SWITCH	EBC	80	80	5.0	100	80	100	300	5.0	1.0	0.30	100	6.0	150	---	---
MPSA05	NPN AMPL/SWITCH	EBC	60	60	4.0	100	60	50	---	1.0	100	0.25	100	---	100	---	---
MPSA06	NPN AMPL/SWITCH	EBC	80	80	4.0	100	80	50	---	1.0	100	0.25	100	---	100	---	---
MPSA13	NPN DARLINGTON	EBC	30	30*	10	100	30	10,000	---	5.0	100	1.50	100	---	125	---	---
MPSA14	NPN DARLINGTON	EBC	30	30*	10	100	30	20,000	---	5.0	100	1.50	100	---	125	---	---
MPSA18	NPN LOW NOISE	EBC	45	45	6.5	50	30	500	1,500	5.0	10	---	---	3.0	100	1.5	---
MPSA20	NPN AMPL/SWITCH	EBC	---	40	4.0	100	30	40	400	10	5.0	0.25	10	4.0	125	---	---

Shaded areas indicate Darlington.  
 Devices are available lead formed. See pages 217 and 218 for details.