

# Small Signal NPN Transistors

TO-72 Case



TYPE NO.	DESCRIPTION	$V_{CBO}$	$V_{CEO}$	$V_{EBO}$	$I_{CBO}$ @	$V_{CB}$	$h_{FE}$		@ $I_C$	@ $V_{CE}$	$V_{CE(SAT)}$ @ $I_C$		$f_T$	$C_{ob}$
		(V)	(V)	(V)	( $\mu A$ )	(V)	MIN	MAX	(mA)	(V)	(V)	(mA)	(MHz)	* $C_{cb}$ (pF)
		MIN	MIN	MIN	MAX						MAX		MIN	MAX
2N917	RF/IF OSCILLATOR	30	15	3.0	0.001	15	20	--	3.0	1.0	0.5	3.0	500	1.7
2N917A	RF/IF OSCILLATOR	30	15	3.0	--	--	20	200	3.0	10	--	--	600	1.7
2N918	RF/IF OSCILLATOR	30	15	3.0	0.01	15	20	--	3.0	1.0	0.4	10	600	1.7
2N998	DARLINGTON	100	60	15	0.01	90	1,600	8,000	10	5.0	1.8	100	60	30
2N2857	VHF/UHF OSC	30	15	2.5	0.01	15	30	150	3.0	1.0	--	--	1,000	1.0*
2N2865	RF/IF OSCILLATOR	25	13	3.0	0.01	15	20	200	4.0	10	0.4	10	600	2.5
2N3478	VHF/UHF LOW NOISE	30	15	2.0	0.02	1.0	25	150	2.0	8.0	--	--	750	1.0*
2N3839	VHF/UHF AMPL/OSC	30	15	2.5	0.01	15	30	150	3.0	1.0	--	--	1,000	1.0*
2N5179	VHF/UHF AMPL/OSC	20	12	2.5	0.02	15	25	250	3.0	1.0	0.4	10	900	1.0*
BFY90	VHF/UHF AMPL/OSC	30	15	2.5	0.01	15	20	125	25	1.0	--	--	1,000	1.5*

Shaded areas indicate Darlington.

# Dual Transistors

TO-71 Case

$P_D$  @  $T_A=25^\circ C=360mW$  Total (Both Die Equal Power)



TYPE NO.	DESCRIPTION	$V_{CBO}$	$V_{CEO}$	$V_{EBO}$	$I_{CBO}$ @	$V_{CB}$	$h_{FE}$		@ $I_C$	@ $V_{CE}$	$V_{CE(SAT)}$ @ $I_C$		MATCHING	
		(V)	(V)	(V)	(nA)	(V)	MIN	MAX	(mA)	(V)	(V)	(mA)	$h_{FE}$ %	$V_{BE}$ (mV)
		MIN	MIN	MIN	MAX						MAX			
CEN741	NPN LOW NOISE	45	45	6.0	10	45	150	600	0.01	5.0	0.35	1.0	20	5.0
CEN832	PNP LOW NOISE	60	60	5.0	10	50	150	450	1.0	5.0	0.25	1.0	20	5.0

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