

8514019 SPRAGUE, SEMICONDS/ICS

93D 03599 D

T-27-90

PLASTIC-CASE BIPOLAR TRANSISTORS

PNP Transistors

Pro-Electron Device Types

ELECTRICAL CHARACTERISTICS at  $T_A = 25^\circ\text{C}$

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 <sup>1</sup> (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)				
BC212L	500	60	50	5.0	15	30	120	800	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC212LA	500	60	50	5.0	15	30	120	220	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC212LB	500	60	50	5.0	15	30	180	460	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC213L	500	45	30	6.0	15	30	120	800	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC213LA	500	45	30	6.0	15	30	120	220	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC213LB	500	45	30	6.0	15	30	180	460	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC213LC	500	45	30	6.0	15	30	380	800	2.0	5.0	0.6	100	200	10	10	—	10	JFA
BC214L	500	45	30	5.0	15	30	140	600	2.0	5.0	0.6	100	200	10	10	—	2.0	JFA
BC214LA	500	45	30	5.0	15	30	100	300	2.0	5.0	0.6	100	200	10	10	—	2.0	JFA
BC214LB	500	45	30	5.0	15	30	200	400	2.0	5.0	0.6	100	200	10	10	—	2.0	JFA
BC214LC	500	45	30	5.0	15	30	350	600	2.0	5.0	0.6	100	200	10	10	—	2.0	JFA
BC257	500	50 <sup>3</sup>	45	5.0	100 <sup>3</sup>	20	120	800	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC257A	500	50 <sup>3</sup>	45	5.0	100 <sup>3</sup>	20	120	220	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC257B	500	50 <sup>3</sup>	45	5.0	100 <sup>3</sup>	20	180	460	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC258	500	30 <sup>3</sup>	25	5.0	100 <sup>3</sup>	20	120	800	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC258A	500	30 <sup>3</sup>	25	5.0	100 <sup>3</sup>	20	120	220	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC258B	500	30 <sup>3</sup>	25	5.0	100 <sup>3</sup>	20	180	460	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC258C	500	30 <sup>3</sup>	25	5.0	100 <sup>3</sup>	20	380	800	2.0	5.0	0.6	100	130	10	10	—	10	JFA
BC259	500	25 <sup>3</sup>	20	5.0	100 <sup>3</sup>	20	180	800	2.0	5.0	0.2	10	130	10	10	—	4.0	JFA
BC259B	500	25 <sup>3</sup>	20	5.0	100 <sup>3</sup>	20	180	460	2.0	5.0	0.2	10	130	10	10	—	4.0	JFA
BC259C	500	25 <sup>3</sup>	20	5.0	100 <sup>3</sup>	20	380	800	2.0	5.0	0.2	10	130	10	10	—	4.0	JFA

NOTES:

- 1) Maximum at typical JEDEC conditions.
- 2)  $\mu\text{A}$ .
- 3)  $V_{(BR)CES}/I_{CES}$ , as applicable.
- 4) mA.
- 5)  $V_{(BR)CER}$  at  $R = 10\Omega$ .