

**Kovar Tab (See Outline Drawing No. 18)**

11B551	20-60 <sup>(5)</sup>	—	0.7 <sup>(6)</sup>	0.9 <sup>(6)</sup>	—	30	25	5	100mw	—	—	—	—	—	—	Kovar tab of 2N696.
11B552	40-120 <sup>(5)</sup>	—	0.7 <sup>(6)</sup>	0.9 <sup>(6)</sup>	—	30	25	5	100mw	—	—	—	—	—	—	Kovar tab of 2N697.
11B554	40-120 <sup>(5)</sup>	—	0.7 <sup>(6)</sup>	0.9 <sup>(6)</sup>	—	40	15	7	100mw	—	—	—	—	—	—	Kovar tab of 2N1613.
11B555	100-300 <sup>(5)</sup>	—	0.7 <sup>(6)</sup>	0.9 <sup>(6)</sup>	—	40	15	7	100mw	—	—	—	—	—	—	Kovar tab of 2N1711.
11B556	40-120 <sup>(5)</sup>	—	1.3 <sup>(6)</sup>	0.9 <sup>(6)</sup>	—	40	15	7	100mw	—	—	—	—	—	—	Kovar tag of 2N1893.
11B560	40-120 <sup>(5)</sup>	—	1.3 <sup>(6)</sup>	0.9 <sup>(6)</sup>	—	30	25	5	100mw	—	—	—	—	—	—	Kovar tab of 2N699.

**NOTES:** Test Conditions in Italics.

(1) Typical  $f_t$  for all types  $\approx$  130 Mc.

(2) Storage temperature on all types is  $-65^\circ$  to  $+300^\circ\text{C}$ . Operating junction temperature on all types is  $-65^\circ$  to  $+200^\circ\text{C}$ .

(3) For switching and amplifier applications.

(4) Also available in military types. (5)  $h_{FE} = I_C = 10$  ma,  $V_{CE} = 10\text{V}$ . (6)  $I_C = 50$  ma,  $I_B = 5$  ma.

**HIGH SPEED SWITCHES<sup>(1,3)</sup>— NPN Planar Epitaxial (See Outline Drawing No. 16)**

Type	$h_{FE}$		MINIMUM			MAXIMUM							Comments		
	Min. @ $I_C$	Max. @ $V_{CE}$	$V_{CE}$ Volts @ $I_C$ @ $R_{BE}$	$V_{CEO}$ Volts @ $I_C$	$V_{EBO}$ Volts @ $I_E$	$V_{BE}$ (SAT) $I_C = 10$ ma $I_B = 1$ ma	$V_{CE}$ (SAT) $I_C = 10$ ma $I_B = 1$ ma	$I_{CBO}$ $T_J = 150^\circ\text{C}$ @ $V_{CB}$		$t_{on}$	$t_{off}$	$C_{ob}$ @ $V_{CB}$			
	ma	Volts	ma ohms	ma	$\mu\text{a}$	Volts	Volts	Volts	$\mu\text{a}$	nsec	nsec	pf	Volts		
2N706	10	1.0	30 10	—	100	3	0.9	0.6	15	30	—	—	6 10	Economy Units.	
2N706A	10	1.0	10 10	10	15	10	5	0.9	0.6	15	30	40	75	5 5	Economy units. High speed.
2N708	10	1.0	30 10	30	15	10	5	0.8	0.4	20	15	40	70	6 10	Low leakage current. High speed.
2N709	10	0.5	— —	10	6	10	4	0.85 <sup>(6)</sup>	0.3 <sup>(6)</sup>	5	5 <sup>(7)</sup>	15	15	3 5	Very high speed switch.
2N753	10	1.0	10 10	10	15	10	5	0.9	0.6	15	30	40	75	5 5	High beta. High speed.

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