

# PNP Germanium Transistors

## PNP Germanium RF Alloy Transistors in TO1 and TO5 metal cases

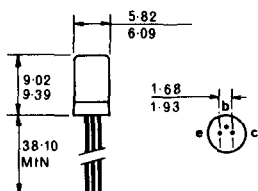
Type	Maximum ratings							Characteristics at $T_{amb} = 25^{\circ}\text{C}$			
	Case	$BV_{CEO}$ V	$BV_{CBO}$ V	$BV_{EBO}$ V	$I_{CM}$ mA	$P_{TOT}^1$ mW	$T_{JM}$ $^{\circ}\text{C}$	$h_{FE} (V_{CE}/I_C)^3$ (V/mA)	$h_{FE} (V_{CE}/I_C)^3$ (V/mA)	$h_{FE} (V_{CE}/I_C)$ (V/mA)	
ASY 26	TO5	15	30	20	200	150	85	30 ... 80 (1/20)	—	—	
ASY 27	TO5	15	25	20	200	150	85	50 ... 150 (1/20)	—	—	
ASY 54N	TO1	10	30	30	—	75	75	20 ... 100 (4.5/1) <sup>2</sup>	40 (1/10)	38 (1/50)	
ASY 55N	TO1	5	20	15	—	75	75	20 ... 150 (4.5/1) <sup>2</sup>	60 (1/10)	60 (1/50)	
ASY 56N	TO1	10	16	12	—	75	75	25 ... 60 (0/10)	>25 (0/50)	—	
ASY 57N	TO1	10	16	12	—	75	75	30 ... 80 (0/10)	>30 (0/50)	—	
ASY 58N	TO1	10	16	12	—	75	75	40 ... 100 (0/10)	>40 (0/50)	—	
ASY 59N	TO1	10	16	12	—	75	75	60 ... 150 (0/10)	>60 (0/50)	—	
ASY 63N	TO1	—	26	20	—	75	75	30 ... 120 (0.1/15)	—	—	
OC 41N	TO1	—	16	12	50	75	75	20 ... 90 (0/10)	—	—	
OC 42N	TO1	—	16	12	50	75	75	>40 (0/10)	—	—	
OC 44N	TO1	—	15	12	10	75	75	40 ... 225 (6/1)	—	—	
OC 45N	TO1	—	15	12	10	75	75	25 ... 125 (6/1)	—	—	

Type	Characteristics at $T_{amb} = 25^{\circ}\text{C}$			
	$V_{CE\ sat} (I_C/I_B)$ V (mA/mA)	$\max I_{CBO} (V_{CB})$ $\mu\text{A}$ (V)	$f_T (V_{CE}/I_C)$ MHz (V/mA)	$C_{ob} (V_{CB})$ pF (V)
ASY 26	< 0.25 (50/2)	3 (5)	> 4 (5/3)	< 16 (5)
ASY 27	< 0.25 (50/1.25)	3 (5)	> 6 (5/3)	< 16 (5)
ASY 54N	0.2 (100/6.6)	10 (20)	6 (4.5/1)	20 (4.5)
ASY 55N	0.2 (100/3.8)	10 (20)	11 (4.5/1)	18 (4.5)
ASY 56N	0.25 (50/2)	10 (16)	> 2 (0.5/10)	< 20 (6)
ASY 57N	0.25 (50/1.67)	10 (16)	> 3.7 (0.5/10)	< 20 (6)
ASY 58N	0.25 (50/1.25)	10 (16)	> 7 (0.5/10)	< 20 (6)
ASY 59N	0.25 (50/0.825)	10 (16)	> 12 (0.5/10)	< 20 (6)
ASY 63N	< 0.1 (15/0.5)	4 (9)	—	< 17 (6)
OC 41N	< 0.14 (10/0.6)	5 (6)	> 3 (6/1)	< 14 (6)
OC 42N	< 0.14 (10/0.3)	5 (6)	> 5.5 (6/1)	< 14 (6)
OC 44N	—	10 (15)	> 7.5 (6/1)	< 13.5 (6)
OC 45N	—	10 (15)	> 3 (6/1)	< 13.5 (6)

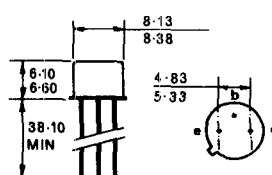
1  $T_{amb} = 25^{\circ}\text{C}$

2  $h_{fe}$  ( $f = 1\text{kHz}$ )

3 For ' $V_{CE} = 0$ ' read ' $V_{CB} = 0$ '



TO 1



TO 5