

# germanium power transistors

## PNP ALLOY TRANSISTORS (3.0 Amp)

TYPE NUMBER	BREAKDOWN VOLTAGES			$h_{FE}$				CUTOFF CURRENT	
	$V_{CB}$	$V_{CE}$	$V_{EB}$	@ $V_{CE}$	@ $I_C$ (A)	Min.	Max.	@ $V_{CB}$	mA
2N1539	-40	-20	-20	-2.0	-3.0	50	100	-2.0	-0.2
2N1539A	-40	-20	-20	-2.0	-3.0	50	100	-2.0	-0.2
2N1540	-60	-30	-30	-2.0	-3.0	50	100	-2.0	-0.2
2N1540A	-60	-30	-30	-2.0	-3.0	50	100	-2.0	-0.2
2N1541	-80	-40	-40	-2.0	-3.0	50	100	-2.0	-0.2
2N1541A	-80	-40	-40	-2.0	-3.0	50	100	-2.0	-0.2
2N1542	-100	-50	-50	-2.0	-3.0	50	100	-2.0	-0.2
2N1542A	-100	-50	-50	-2.0	-3.0	50	100	-2.0	-0.2
2N1543	-120	-60	-60	-2.0	-3.0	50	100	-2.0	-0.2
2N1543A	-120	-60	-60	-2.0	-3.0	50	100	-2.0	-0.2
2N1544	-40	-20	-20	-2.0	-3.0	75	150	-2.0	-0.2
2N1544A	-40	-20	-20	-2.0	-3.0	75	150	-2.0	-0.2
2N1545	-60	-30	-30	-2.0	-3.0	75	150	-2.0	-0.2
2N1545A	-60	-30	-30	-2.0	-3.0	75	150	-2.0	-0.2
2N1546	-80	-40	-40	-2.0	-3.0	75	150	-2.0	-0.2
2N1546A	-80	-40	-40	-2.0	-3.0	75	150	-2.0	-0.2
2N1547	-100	-50	-50	-2.0	-3.0	75	150	-2.0	-0.2
2N1547A	-100	-50	-50	-2.0	-3.0	75	150	-2.0	-0.2
2N1548	-120	-60	-60	-2.0	-3.0	75	150	-2.0	-0.2
2N3611	-40	-30	-20	-2.0	-3.0	35	70	-25	-0.5
2N3612	-60	-45	-30	-2.0	-3.0	35	70	-40	-0.5
2N3613	-40	-30	-20	-2.0	-3.0	60	120	-25	-0.5
2N3614	-60	-45	-30	-2.0	-3.0	60	120	-40	-0.5
2N3615	-80	-60	-40	-2.0	-3.0	30	60	-55	-0.5
2N3616	-100	-75	-50	-2.0	-3.0	30	60	-65	-1.0
2N3617	-80	-60	-40	-2.0	-3.0	45	90	-55	-1.0
2N3618	-100	-75	-50	-2.0	-3.0	45	90	-65	-1.0

## PNP ALLOY TRANSISTORS (4.0 Amp)

TYPE NUMBER	BREAKDOWN VOLTAGES			$h_{FE}$				CUTOFF CURRENT	
	$V_{CB}$	$V_{CE}$	$V_{EB}$	@ $V_{CE}$	@ $I_C$ (A)	Min.	Max.	@ $V_{CB}$	mA
2N418	-100	-80	-15	-2.0	-4.0	40	—	-60	-2.0
2N420	-65	-45	-15	-2.0	-4.0	40	—	-25	-1.0
2N420A	-90	-70	-15	-2.0	-4.0	40	—	-60	-2.0
2N561	-80	-65	-60	-2.0	-4.0	20	50	-0.5	-0.15