

AWV offers a comprehensive line of superior-quality germanium p-n-p transistors for RF, IF, AF, and switching service in industrial, electronic computer, and entertainment applications.





2N217

For large-signal af amplifier service. In class B push-pull, two 2N217's can deliver a maximum signal power output of approximately 160 milliwatts.



2N218

For 455-Kc/s intermediate - frequency amplifier applications in transistorized pertable radios and automobile radios operating from either a 6.3- or 12.6-volt supply.



2N219

For converter and mixer-oscillator applications in standard AM broadcast - band transistorized portable radios and automobile radios o perating from either a 6.3- or 12.6-volt supply.



2N220

Extremely low-noise type for use in preamplifier or input stages of transistorized audio amplifiers operating from extremely small input signals.



2N247

Drift type. For radiofrequency amplifier use in the AM broadcast band and up into the short-wave bands. Has 4 flexible leads— 4th lead connected to case internally for shielding.



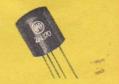
2N269

For low-level, medium speed, on-off control applications such as in flip-flop and gating circuits.



2N358

N.P.N. type medium speed, high current switching transistor with alpha cutoff 9 Mc/s.



2N370

Drift type. For use as rf amplifier in short-wave receivers. Controlled for input and output impedance values, and for power gain, to insure unit to unit interchangeability. Has 4 leads—4th lead connected to case internally for shielding.



2N371

Drift type. For rf oscillator service in all-wave portable receivers. Used with 2N370 and 2N372, it provides complete complement for highgain rf tuners. Has 4 flexible leads — 4th lead connected to case internally for shielding.



2N372

Drift type. For rf mixer service in all-wave portable receivers. Intended for use with 2N370 and 2N371 in rf tuner complement. Has 4 flexible leads — 4th lead connected to case internally for shielding.



2N373

Drift transistor of PNP type for 455 Kc/s amplifier service. Power gain 34 dB without neutralizing



2N374

Drift transistor for mixer-oscillator service conversion power gain is 40 dB at a frequency of 1 Mc/s.



2N410

For 455-Kc/s intermediate-frequency amplifier service in battery-operated portable radio receivers.



2N412

For converter (mixeroscillator) service in battery-operated portable radio receivers operating in the standard AM broadcast band.



2N544

Drift transistor for amplifier service. In a neutralized amplifier circuit the power gain can be 30.4 dB at 1.5 Mc/s.



2N578

Designed for highcurrent switching circuits in industrial computers. Collector current —400mA, alpha cutoff 5 Mc/s.



2N579

Designed for highcurrent switching circuits in industrial computers. Collector current —400mA, alpha cutof 8 Mc/s.



2N580

Designed for highcurrent switching circuits in industrial computers. Collector current —400mA, alpha cutoff 15 Mc/s.



cations.

For audio - frequency amplifier service such as hearing-aid appli-



For audio - frequency

amplifier service such

as hearing-aid appli-

cations. It is very

small in size - only

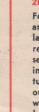
0.135" in diameter

with a maximum length (excluding

flexible leads) of

2N105

0.255".



For audio frequency amplifiers particu-larly in automobile receivers. In class A service at a mounting flange tempera-ture of 80°C an output power of 2 watts can be developed with a power gain of 35.5 dB.

2N206

For moderate-power audio-frequency amplifier service. Max. collector dissipation, 75 milliwatts.

2N215

For low-power audio applications. Only 0.240" in diameter with a maximum length (excluding flexible leads) of 0.455".



For large-signal af amplifier service. In class A, the 2N270 can deliver a max. signal power output of approx. 60 milliwatts. In class B pushpull, two 2N270's can deliver 500 mil-



2N301-2N301-A

For audio-power stages requiring high output with low distortion at high power gain. In class A, using one 2N301, max. output approx. 5 watts; a pair can deliver 12 watts in class B push-pull.



2N274

2N398

105 - volt switching

transistor for direct

high - voltage control of "on-off" devices

such as neon indi-

cators, relays, incan-

descent lamp indica-tors, and indicating

counter circuits.

Drift type. For use as rf amplifier in very compact commercial, mobile and communications equipment. Has 4 flexible leads-4th lead connected to case internally for shielding.



2N351

For audio frequency power amplifiers particularly in automobile receivers. Similar to 2N376 except that power gain is 35.5 dB; class A power output watts.



2N356

NPN type medium speed, high current switching transistor with alpha cutoff 3 Mc/s.



2N357

NPN type medium speed, high current switching transistor with alpha cutoff 6 Mc/s.



2N376

For audio frequency amplifiers particularly in automobile receivers. In class A service at a mounting flange tempera-ture of 80°C the transistor will, with a power gain of 35 dB, develop an output power of 4 watts.



2N582

PNP medium speed switching transistor.
Director current transfer ratio is 30.



2N384

VHF Drift type. For use as an oscillator up to 250 Mc/s in an rf amplifier in communications equipment or as pulse amplifier and high-speed switching device in computers. 100-Mc/s alpha cutoff frequency.

PNP high speed switching transistor.
Alpha cutoff frequency 18 Mc/s.



2N583

Identical to 2N581 except for the size of the casing.



2N404

Specifically designed for use in switching circuits of compact, medium-speed industrial electronic computers.



2N406

Designed for class A audio - frequency driver service in compact battery-operated portable radio re-ceivers. Flexible lead type.



2N408

For class B push-pull power output stages of battery - operated portable radio re-ceivers and audio amplifiers operating at power output levels of approximately 160 milliwatts.



Identical to 2N582 except for the size of the casing.

2N584

2N585

N.P.N. high speed switching transistor. Collector-to-base voltage of 25 volts.



2N586

Low speed switching transistor for relayactuating, voltage multi-vibrator ac-do and power supply circuits. This tran-sistor may also be used in large signal Class A, B push-pull audio frequency circuits.

AWV TRANSISTOR DATA CHART GERMANIUM P-N-P ALLOY JUNCTION TYPES

				MAXIMUM RATINGS TYPICAL CHARACTERISTICS Ta=25°C									
TYPE	CLASS OF SERVICE	BASING OR LEAD ARRANGEMENT	MAXIMUM CASE DIMENSIONS Inches		Collector to base	D.C. Emitter Current	Dissipation at 25°C	Current Transfer Ratio at 1kc/s	Cut-off Freq. fgb	Power Gain	Noise Factor	Freq. for Unity Power Amplifi- cation	Power
			LENGTH	DIAMETER		mA	mW	hfe	Mc/s	dB	dB	Mc/s.	Watts
2N77	Class A AF Amplifier	3 Flexible Leads	0.405	0.24	-4	-0.7	-	55	0.7	44.1	6.5	1.7	_
2N105	Class A AF Amplifier	3 Flexible Leads	0.255	0.135	-25	15	35	55	0.75	42	7.5	2.6	_
2N176	AF Power Amplifier	As for 2N301	1.5319	1.129	-40	3000	100000	63	_	35.5		_	2†
2N206	Class A AF Amplifier	3 Flexible Leads	0.405	0.24	-30	50	75	47	0.78	43	9	1.6	-
2N215	Class A AF Amplifier	3 Flexible Leads	0.455	0.24	-30	50	150	44	0.7	41	6.5	1.6	-
2N217	Large-Signal AF Amplifier	3 Flexible Leads	0.405	0.24	25	70	150	65	_	33§	-		0.168
2N218	Class A 455 Kc/s Amplifier	3 Flexible Leads	0.405	0.24	-16	15	80	48	6.7	37.8	4.5	14	-
2N219	540-1640 Kc/s Converter	3 Flexible Leads	0.405	0.24	-16	15	80	75	10	32	-	16.5	-
2N220	Class A AF Amplifier	3 Flexible Leads	0.405	0.24	-10	2	50	65	0.85	43	6	2.05	-
2N247	Class A RF Amplifier	4 Flexible Leads	0.375	0.36	-35	10	80	60	30	45	8	132	-
2N269	Low-Level Switch	3 Flexible Leads	0.405	0.24	25	100	120	35■	4	For "on-c	off" contro	l applicatio	ins
2N270	Large-Signal AF Amplifier	3 Flexible Leads	0.375	0.36	-25	150	250	70	-	35§	_	_	0.58
2N274	Class A RF Amplifier	4 Flexible Leads	0.405	0.24	-35	10	80	60	30	45±	8	132	_
2N301	AF Power Amplifier	2-Pin Base with	1.53¶	1.09	-40	3000	11000†	70	-	30§	_	_	12§
2N301-A	AF Power Amplifier	Mounting Flange	1.53¶	1.09	60	3000	11000†	70=	-	30§	_	-	12§
2N351	AF Power Amplifier	As for 2N301	1.5319	1.129	-40	3000	10000†	65	-	33.5	-	_	4†
2N356	Medium Speed Switch N-P-N	3 Flexible Leads	0.26	0.37	20	-500	100 /	30■	3		-		_
2N357	Medium Speed Switch N-P-N	3 Flexible Leads	0.26	0.37	20	500	100	30■	6	_		_	-
2N358	Medium Speed Switch N.P.N	3 Flexible Leads	0.26	0.37	20	-500	100	30	9	_	_	-	-
2N370	Class A RF Amplifier	4 Flexible Leads	0.375	0.36	-20	10	80	60	30	50.5%	_	132	_
2N371	RF Oscillator	4 Flexible Leads	0.37,5	0.36	-20	10	80	60	30	_	_	132	-
2N372	RF Mixer	4 Flexible Leads	0.375	0.36	20	10	80	60	30	50.5	-	132	-
2N373	455 Kc/s Class A Amplifier	4 Flexible Leads	0.375	0.360	-25	10	80	60	30	40	-	_	Tal
2N374	Converter—AM Broadcast	4 Flexible Leads	0 375	0.360	-25	10	80	60	30	40	_	-	<u> </u>
2N376	AF Power Amplifier	As for 2N301	1.5319	1.129	-40	3000	10000†	78	_	35	-	-	41
2N384	VHF Amplifier	4 Flexible Leads	0.405	0.24	-30	10	120	60	100	34	-	250	_
2N398	High-Voltage Switch	3 Flexible Leads	0.230	0.330	-105	100	50	60■	-105-Vo	It Collector	Breakdov	wn Voltage	Rating.
2N404	Low-Level Switch	3 Flexible Leads	0.230	0.330	25	100	120	Max. DC	Collector-to-Emitter Saturation Voltage = -0.15 Vo				
2N406	Class A AF Driver Amplifier	3 Flexible Leads	0.405	0.24	—18	35	150	35	0.65	43	_	-	_
2N408	Large-Signal AF Amplifier	3 Flexible Leads	0.405	0.24	-20	70	150	65■	_	33§	_	_	0.168
2N410	Class A 455 Kc/s Amplifier	3 Flexible Leads	0.405	0.24	-12	15	80	48	6.7	37.83	4.5	14	_
2N412	540-1640 Kc/s Converter	3 Flexible Leads	0.405	0.24	-12	15	80	75	10	32		16.5	-
2N544	RF Class A Amplifier	4 Flexible Leads	0.375	0.36	-18	10	80	60	30	30.4	-	-	-
2N578	High Current Switching	3 Flexible Leads	0.26	0.37	-20	400	120	15	5	Turn on	0.9 usec.	Turn off 0	.6 usec.
2N579	High Current Switching	3 Flexible Leads	0.26	0.37	-20	400	120	30■	8	Turn on	0.4 usec.	Turn off O.	.5 μsec.
2N580	High Current Switching	3 Flexible Leads	0.26	0.37	-20	400	120	45=	15	The second second	0.2 µsec.	Turn off O	The second second
2N581	Medium Speed Switching .	3 Flexible Leads	0.26	0.37	-18	100	80	30■	8	_	_	_	-
2N582	High Speed Switching	3 Flexible Leads	0.26	0.37	25	100	120	60	18	_	_		_
2N583	Medium Speed Switching	3 Flexible Leads	0.405	0.24	-18	100	80	30■	8	_	_	_	-
2N584	High Speed Switching	3 Flexible Leads	0.405	0.24	25	100	120	60	18	_	_	_	_
2N585	Medium Speed Switching N-P-N		0.26	0.37	25	-200	120	40■	5	_	_	_	_
2N586	Low Speed Switching	3 Flexible Leads	0.375	0.360	45	250	250	55	_	_	-	-	_

Mean dissipation if averaged for time of 50 mSecs., otherwise to be considered as peak value. ¶Overall mounting flange dimensions. ♦Useful gain—circuit neutralised. ■D.C. transfer ratio (hFE). †At mounting flange temperature of 80°C. One lead, connected internally to case, acts as a shield to minimize interlead capacitance and coupling to adjacent circuit components. §Two transistors. ‡Measured in a single-tuned unilateralized circuit matched to the generator and load impedances for maximum transfer of power (transformer insertion losses not included).

For Complete Technical Data Write:

AMALGAMATED WIRELESS VALVE CO. PTY. LTD.
47 YORK STREET, SYDNEY

