

Transistor Identification and Substitution

General Usage	Manufacturing Process	Form	IBM Type No.	IBM P/N	Circuit Application *	Notes
Logic	Alloy Junction	PNP	01	345741	VM (S)	1 2 3 6 7 8
			02	345742	VM (NS)	
			13	344892	CS (NS)	
		25	318322	CS, CTRL, CTDL(S) (NS)		
		29	492451	CTDL(S)		
		33	318324	CS, CTRL, CTDL(S) (NS)		
	NPN	34	535009	CTDL(S)		
		51	345747	VM (S)		
		52	345748	VM (NS)		
	Diffused Junction	PNP	63	344891	CS (NS)	
			75	318323	CS, CTRL, CTDL(S) (NS)	
			83	318325	CS, CTRL, CTDL(S) (NS)	
		NPN	15	526797	CS (NS)	
			16	526880	CS (NS)	
			18	347592	CS (NS)	
Special Purpose	Power Drivers	NPN	65	526798	CS (NS)	
			66	526881	CS (NS)	
			68	347593	CS (NS)	
			04	345744	(S) Line Driver	
			06	345745	(S) Sense Amplifier	
			12	340709	(S) 48v Relay Driver	
			14	345763	(S) 45v Neon Driver	
			20	526795	(S) 25v Line Driver	
	21	526796	(S) Read-Write Driver			
	Diffused Junction (Medium) (Power) Drivers	NPN	22	526898	(S) Prolay and Power Driver	
			23	526899	(S) 48v Relay Driver	
			26	535441	(S) 20v Relay Driver	
			71	492450	(S) Slow Speed Core Driver	
			88	369558	(NS) Core Memory Driver	
			89	369559	(NS) Core Memory Driver	
91			369561	(S) Shift Register and Drum Driver		
92	369562	(S) Shift Register and Drum Driver				
93	369560	(NS) Core Memory Driver				

\* Circuit Application

- VM - Voltage Mode
- CS - Current Switching
- CTRL- Complementary Transistor Resistor Logic
- CTDL- Complementary Transistor Diode Logic
- (S) - Saturating
- (NS)- Non-saturating

Notes:

1. Type 13 can be used for type 33 or 25
2. Type 25 cannot be used for type 33
3. Type 33 can be used for type 25
4. A Delco 2N174 can be used for type 22
5. A Philco 1229 can be used for type 23
6. Type 63 can be used for type 83 or 75
7. Type 75 cannot be used for type 83
8. Type 83 can be used for type 75