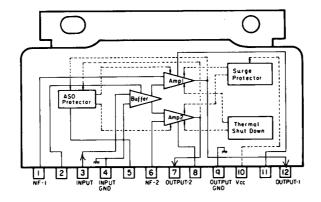
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APPLICATION	POWER IC	NAME	PA3005
MODEL	GM-4	TYPE	SILICONE MONOLITHIC BIPOLAR LINEAR IC

BLOCK DIAGRAM



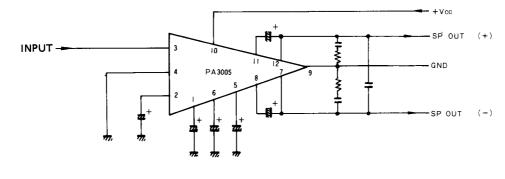
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PIN FUNCTIONS

Pin No.	Standard Voltage (V)	Function and Operation	
1	1.9	NF	
2	3.5	de-coupling	
3	0	Input	
4	0	GND	
5	1.4	ASO protection circuit time constant	
6	1.9	NF	
7	6.9	Output (reverse phase)	
8	13.1	Boot Strap	
9	0	GND	
10	13.7	+Vcc	
11	13.1	Boot Strap	
12	6.9	Output (forward phase)	

CONNECTION DIAGRAM



Pin No.	Pin Name	Standard Voltage (V)	I/O	Function and Operation	
8	OUT-2	→	ουτ	Drives the base of the forward motor drive transistor. PLAY mode: 2.5 \sim 4V; MS, FF, REW Modes: 2.5 \sim 4.8V	
9	MSJP-2	→	IN	Forward motor STOP input Motor STOP Mode: 0V Motor RUNNING mode: 0.7 ~ 0.8V	
10	NF-E	→	ουτ	MUSIC signal amp output. When no MUSIC, approximately 3V constant voltage, when MUSIC, an amplified waveform centered about 3V appears.	
11	ΘE	Approx 3V	IN	Music search MUSIC signal amp input.	
12	VDD			Power supply.	
13	⊖ P	Approx 3V	IN	END SENSING amp input.	
14	NF-P	-	ουτ	END SENSING amp output. When the forward & reverse motor stopped, a constant voltage of approximately 3V appears. When both motors or one motor is rotating, a motor ripple voltage amplified waveform appears centered about 3V.	
15	PS	→	ουτ	END SENSING Schmitt circuit output. When one motor is rotating, an "H" level approximately 6V, "L" level approximately 0V pulse waveform is generated in synchronization with the motor ripple voltage. When both motors are stopped, this pin becomes "H" level	
16	ES	-	ουτ	MUSIC SENSING schmitt circuit. When music sensed in the PLAY and MS modes, an "H" level approx imately 6V, "L" level approximately 0V pulse waveform is generated in synchronization with the music signal. (In all other cases, this pin becomes "H" level.	
17	EJT	Normally OV	оит	EJECT output when motor races in the PLAY mode. A constant current is output when the motor races in the PLAY mode.	
18	P	→	IN	PLAY mode switching input. Approx OV in the PLAY mode. Approx 10V in other modes.	
19	PLAY ADJ-1	→		Functions and operation are the same as those of pin 7. Corresponds to the reverse motor.	
20	MSTP-1	→	IN	Reverse motor stop input. Voltage is the same as that of pin 9.	
21	OUT-1	→	ουτ	Corresponds to the reverse motor. Functions and operation are the same as those of pin 8.	
22	CD-1	→	ουτ	Correspinds to the reverse motor. Functions and operation are the same as those of pin 6.	
23	(—) 1	→	IN	Corresponds to the reverse motor. Functions and operation are the same as those of pin 5.	
24	(+) 1	→	IN	Corresponds to the reverse motor. Functions and operation are the same as tose of pin 4.	