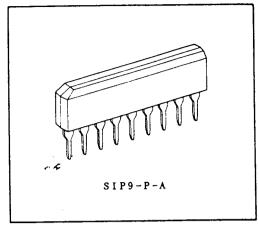
PROTECTION CIRCUIT FOR OCL POWER AMPLIFIER AND SPEAKER

- Over current detecting circuit Operation at the time of over load, such as a speaker terminal short.
- DC voltage detecting circuit Operation at the time when positive or negative DC voltage (±1.1V of detection level) has generated at output terminals.
- . Muting circuit Transient noise protection when power is ON-OFF.
- . Relay driver circuit (Drive current of 130mA at Max.)
- . Operation by dual power supply.



Weight: 0.9g(Typ.)

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	VCC	60	V
Relay Driver Output Current	IOUT	130	m.A
Power Dissipation	PĎ	500	mW
Operating Temperature	Topr	-20 ~ 75	°C
Storage Temperature	Tstg	-55~150	°C

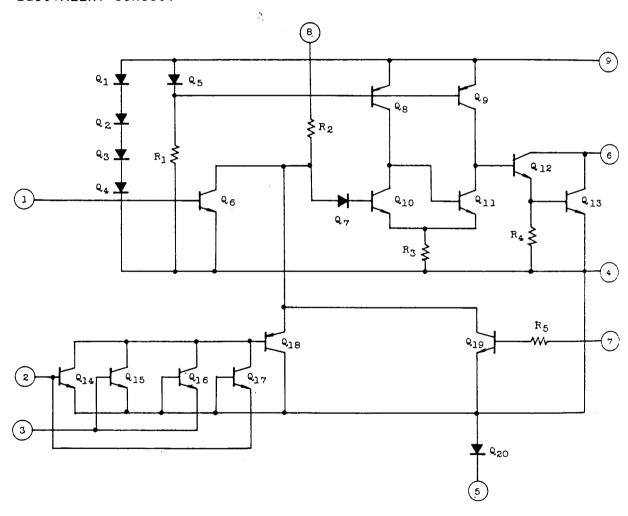
ELECTRICAL CHARACTERISTICS (V_{CC} =±50V, Ta=25 $^{\circ}$ C)

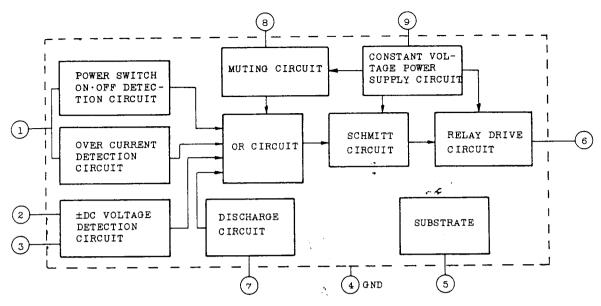
CHARACTERISTIC	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
	I _{CC} ON	-	V_1 IN=-5V, $\pm V_{DC}$ =0V, SW:OFF	_	54	-	mA
Supply Current	I _{CC} OFF	-	V ₁ IN=0V, ±V _{DC} =0V, SW:OFF	1.5	2.4	4	nia
DC Detector Voltage	+V _{DC}	-	Note 1	0.9	1.1	1.3	v
be betegior vortage	-V _{DC}	-	Note 1	-0.9	-1.1	-1.3	
Output Voltage	V _{OUT} (ON)	-	v_1 IN=-5V, $\pm v_{DC}$ =0V, SW:OFF	-	1	2	v
	VOUT(OFF)	-	V ₁ IN=0V, ±V _{DC} =0V, SW:OFF	-	50	-	
Muting Time at Power ON	M.T (VCC ON)	_	Note 2	-	4_	_	sec
Muting Time with Load Shorted		-	Note 3	-	3.5		sec
Pin 8 Entering Current	Ig	-	-	2	8	-	μA
Pin 9 Terminal Voltage	٧9	-	-	-	3.1	_	V
Pin 1 Terminal Voltage	v ₁	-	-		0.75	-	V
Pin 5 Terminal Voltage	V ₅	_	-		-0.75		V

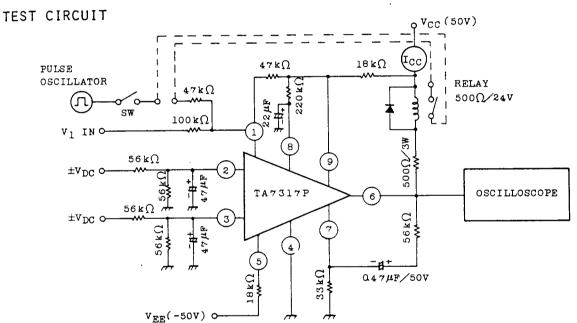
MAXIMUM INTO OR OUT CURRENT

CHARACTERISTIC	SYMBOL	RATING	UNIT
Pin 1 Current	11	±1.0	mA
Pin 2 Current	12	±1.0	mA
Pin 3 Current	13	±1.0	mA
Pin 5 Current	15	-6.0	mA
Pin 7 Current	17	1.0	m.A
Pin 9 Current	Ig	5.0	mA

EQUIVALENT CIRCUIT







- (Note) 1. The value of $\pm V_{DC}$ at the time when the relay is turned from ON to OFF in the condition of V₁ IN=-5V and SW·OFF.
 - 2. The time required for the relay being turned from OFF to ON at $\pm V_{CC}$ ON in the condition of V₁ IN=-5V, $\pm V_{DC}$ =0V, and SW·OFF.
 - 3. The duration of the relay being able to keep OFF when SW is turned ON in the condition of V_1 IN=-5V and $\pm V_{DC}$ =0V. At that time input pulse is 3ms,-3V.

