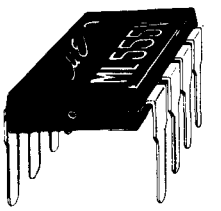
Multiple Transistors

Darlington amplifiers

TYPE NO.	Maximum Ratings					Electrical Characteristics @ $T_A = 25^\circ C$				CASE
	P_D @ $T_A = 25^\circ C$	I_C	BV_{CBO}	LV_{CEO}	BV_{EBO}	h_{FE} @ V_{CE} @ I_C min. max.	$V_{CE(sat)}$ @ I_C/I_B	f_T @ I_C	NF @ f	
ME 5308	250mW	300mA	40V	40V	12V	7000/70000 @ 5V @ 2mA	1.4V @ 200/0.2mA	60MHz @ 2mA	–	TO-106
2N 5305	500mW	300mA	25V	25V	12V	2000/20000 @ 5V @ 2mA	1.4V @ 200/0.2mA	60MHz @ 2mA	–	TO-92B
2N 5306	500mW	300mA	25V	25V	12V	7000/70000 @ 5V @ 2mA	1.4V @ 200/0.2mA	60MHz @ 2mA	–	TO-92B
2N 5307	500mW	300mA	40V	40V	12V	2000/20000 @ 5V @ 2mA	1.4V @ 200/0.2mA	60MHz @ 2mA	–	TO-92B
2N 5308	500mW	300mA	40V	40V	12V	7000/70000 @ 5V @ 2mA	1.4V @ 200/0.2mA	60MHz @ 2mA	–	TO-92B
BC 516	500mW	300mA	40V	30V	10V	30000/ – @ 2V @ 20mA	1.0V @ 100/0.1mA	– –	15dB @ 1kHz	TO-92F†
BC 517	500mW	300mA	40V	30V	10V	30000/ – @ 2V @ 20mA	1.0V @ 100/0.1mA	– –	15dB @ 1kHz	TO-92F†

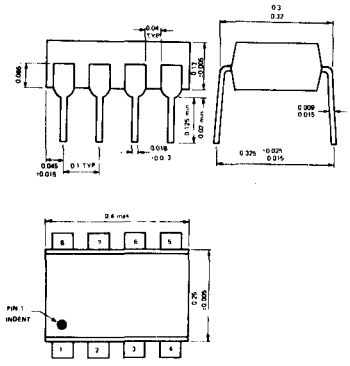
†Leads preformed to spacings of TO-18

Monolithic Integrated Circuit 555

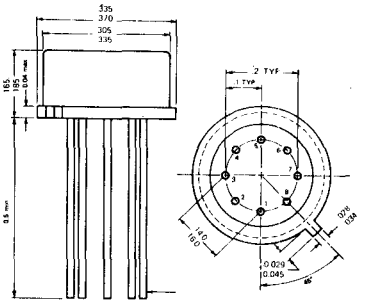


The ML 555 monolithic integrated circuit is a highly stable timer designed for precision timing and oscillator applications. The time interval is precisely determined by an external R – C network. Additional terminals are provided for triggering or resetting if desired. The ML 555 may be triggered or reset on falling waveforms. Its Trigger and Reset inputs are logic level compatible. The outputs are capable of driving TTL circuits with source or sink current up to 200mA. Both Minidip and Metal Can (TO-99) packages are available for this product. (ML555V in MINIDIP & ML555T in TO-99) For further information, please consult our office.

MINI DIP PACKAGE



TO-99



1. Ground
2. Trigger
3. Output
4. Reset
5. Control voltage
6. Threshold
7. Discharge
8. Vcc

TYPE NO.	Supply voltage V_{cc} Range	Threshold voltage V_{th} typical	Threshold current I_{th} max.	Trigger voltage V_t typical	Trigger current I_t typical	Reset current I_r typical	Output voltage low V_{OL} (max.) @ V_{cc} = 5V I_{sink} = 5mA	Output voltage high V_{OH} (min.) @ V_{cc} = 5V I_{source} = 500mA	Rise fall time t_r t_f
ML 555T	4.5V – 16V	$\frac{2}{3}V_{cc}$	0.25μA	$\frac{1}{3}V_{cc}$	0.5μA	01.mA	0.35V	2.75V	100 ns 100 ns
ML 555V	4.5V – 16V	$\frac{2}{3}V_{cc}$	0.25μA	$\frac{1}{3}V_{cc}$	0.5μA	0.1mA	0.35V	2.75V	100 ns 100 ns