

TENTATIVE SPECIFICATIONS

TYPES TI 360 and TI 361
P-N-P GERMANIUM "MESA" TRANSISTORS

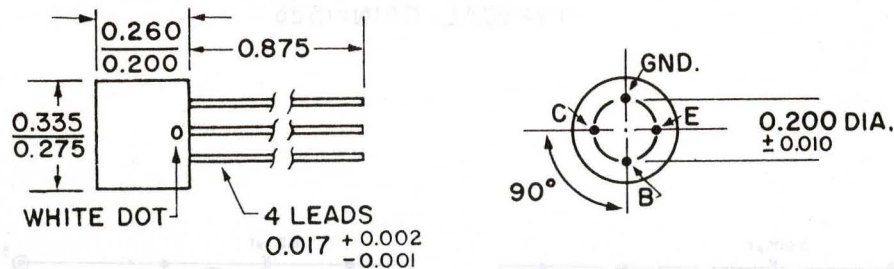
Specifically designed for entertainment application. The TI 360 can be used in 100 mc (FM) amplifiers and the TI 361 can be used in 200 mc (TV) amplifiers.

qualification testing

To ensure maximum reliability, stability, and long life, all units are heat cycled from -55°C and room humidity to +85°C and 95% relative humidity for four complete cycles over an eight hour period. All transistors are thoroughly tested for rigid adherence to specified design characteristics.

mechanical data

Metal case with new glass-to-metal hermetic seal between case and leads eliminates all welding and soldering operations from the sealing process. Approximate unit weight 1 gram.



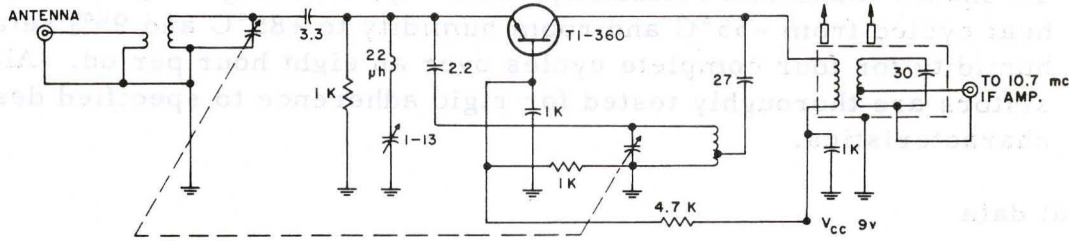
maximum ratings at 25°C ambient (unless otherwise noted).

	min.	typ.	max.	unit
Collector-Base Voltage	-20	-40	-	v
Emitter-Base Voltage	-0.5	-0.75	-	v
Collector-Emitter Voltage	-20	-25	-	v
Collector Current	-	-	-3	ma
Total Device Dissipation	-	-	50	mw
Collector Junction Temperature	-	-	85	°C
Storage Temperature	-	-	-55 to +85	°C

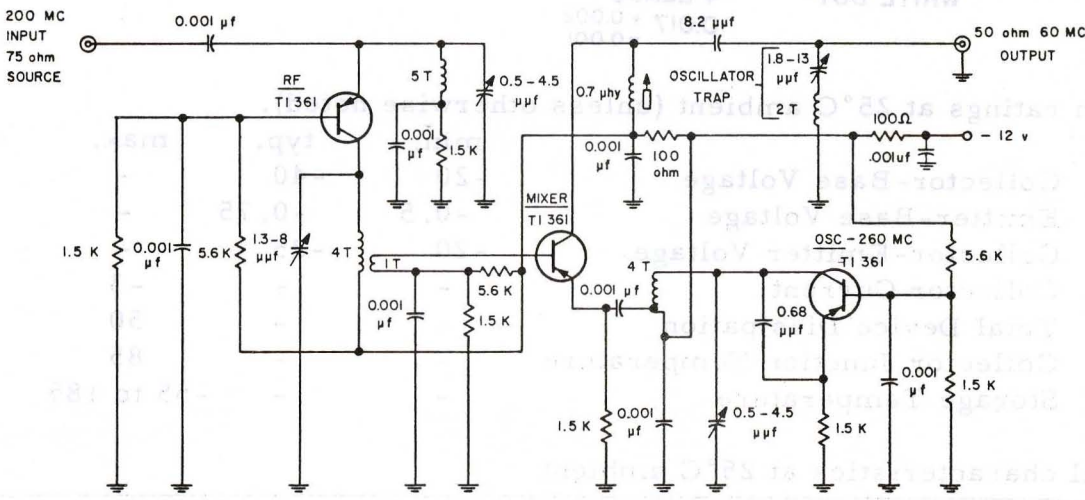
electrical characteristics at 25°C ambient

symbol	characteristic	test conditions	100 mc TI 360	200 mc TI 361	unit
I_{CBO}	Collector Reverse Current (max.)	$V_{CB} = -12$ v	-10	-10	μ a
I_{EBO}	Emitter Reverse Current (max.)	$V_{EB} = -0.3$ v	-10	-10	μ a
h_{FE}	dc Forward Current Transfer Ratio (typ.)	$V_{CE} = -9$ v $I_C = -1$ ma	8	8	-
P_g	Power Gain (typ.)	$V_{CE} = -9$ v $I_C = -1$ ma	15	10	db
$r_b' C_c$	Extrinsic Base Resistance, Intrinsic Collector Capacitance Product (typ.)	$V_{CE} = -10$ v $I_C = -1$ ma $f = 100$ mc	20	15	ohms- μ f (μ sec)
f_{max}	(typ.)	Unity Power Gain	500	650	mc
NF	Noise Figure (max.)	$V_{CE} = -9$ v $I_C = -1$ ma $f = 100$ mc $f = 200$ mc	7.0	8.0	db db

TRANSISTOR TUNERS



ONE TRANSISTOR 100 MC TUNER
TYPICAL GAIN=15db



THREE TRANSISTOR 200MC TUNER
TYPICAL GAIN = 22db