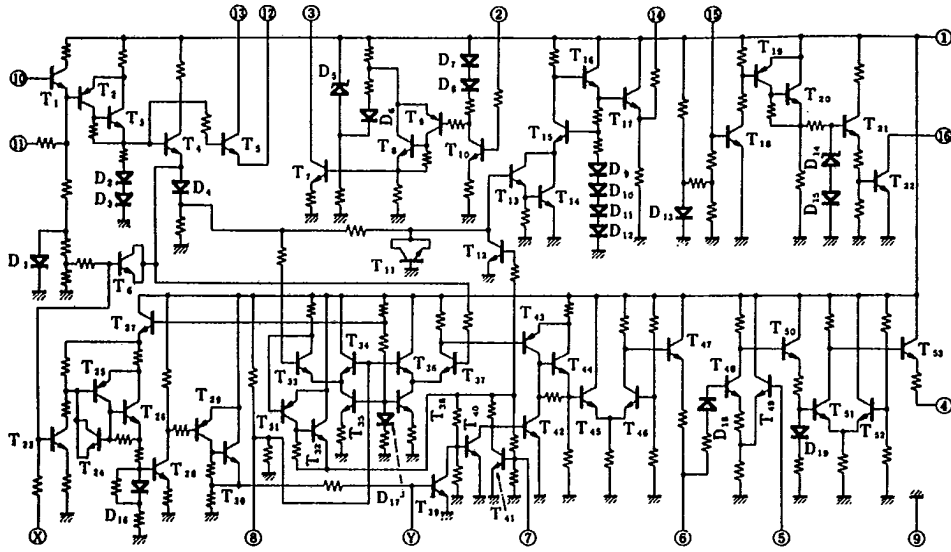




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Absolute Maximum Ratings (Ta=25°C)

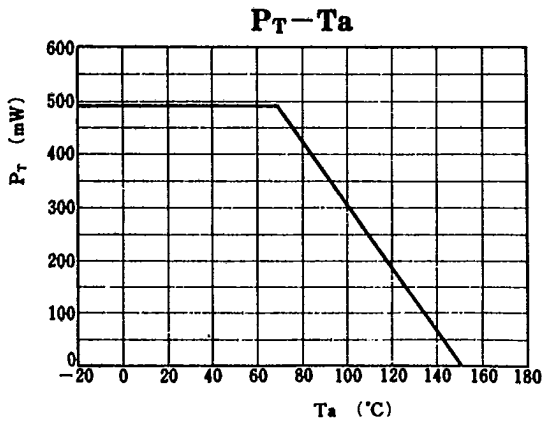
SYMBOL	RATING		UNIT
V <sub>1-9</sub>	15.6		V
V <sub>5-9</sub>	V <sub>1-9</sub>	0	V
V <sub>8-9</sub> , V <sub>16-9</sub>	30		V
V <sub>3-9</sub> , V <sub>6-9</sub> , V <sub>14-9</sub>	V <sub>1-9</sub>	-5	V
V <sub>13-9</sub>	24	0	V
I <sub>1</sub> , I <sub>3</sub> , I <sub>10</sub> , I <sub>13</sub>	1	-0.1	mA
I <sub>5</sub>	10	-0.1	mA
I <sub>6</sub>	0.1	-10	mA
I <sub>8</sub>	1	-10	mA
I <sub>7</sub> , I <sub>9</sub> , I <sub>11</sub>	1	-1	mA
I <sub>15</sub>	0.1	-20	mA
I <sub>18</sub>	20	0	mA
I <sub>14</sub>	1	-10	mA
I <sub>16</sub>	10	0	mA
P <sub>T5</sub>	60		mW
P <sub>T7</sub>	45		mW
P <sub>T31</sub>	20		mW
I <sub>tot</sub>	41		mA
P <sub>T</sub>	490		mW
T <sub>opr</sub>	-20~+70		°C
T <sub>stg</sub>	-40~+150		°C

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Electrical Characteristics ( $V_{CC}=V_{1-s}=12V$ ,  $T_a=25^\circ C$ )

SYMBOL	TEST FIG	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
$I_{tot}$	1	$V_{1-s}=12V$	14	18	22	mA
$R_{i\textcircled{c}}$		$V_{1-s}=10V$		150		k $\Omega$
$C_{i\textcircled{c}}$		R-X $f=3.58MHz$		3.5		pF
$G_{11-12}$	2	$V_{1-s}=11\sim 10V$ ( $1V_{p-p}$ )	1.12	1.20	1.28	*
$V_{11-s}$		$V_{1-s}=12V$ $R_{1-11}=910\Omega$ , $R_{11-s}=1k\Omega$	0.61	0.7	0.79	V
B			4.5			MHz
$V_{11-s}$	2	$R_{11-s}=1k\Omega$ , $V_{1-s}=12V$ $I_{11-s}=1.5mA$	24			V
$G_{11-16}$	2	$V_{1-s}=10.2\sim 11.2V$ ( $1V_{p-p}$ )	2.2	2.7	3.3	*
$R_{e\textcircled{c}}$		R-X $f=500kHz$	430	540	650	$\Omega$
$V_{11-s}$				0.48		V
$V_{1-s}$		$R_{1-s}=3.3k\Omega$ , $V_{11-s}=9V$	9			V
$G_{1F}$		$R_{1-s}=3.3k\Omega$ , $V_{1-s}=3V$	500			*
$R_{e\textcircled{c}}$		R-X $f=500kHz$	340	420	500	$\Omega$
$V_{1-s}$			2.54	2.7	2.86	V
$V_{1-s}$		$R_{1-s}=10k\Omega$ , $V_{1-s}=3.2V$ $V_{11-s}=6V$	8.4			V
$G_{RF}$		$R_{1-s}=10k\Omega$ , $V_{1-s}=3.0V$		80		*
$R_{e\textcircled{c}}$		R-X $f=500kHz$		2.6		k $\Omega$
$V_{1-s}$		$V_{11-s}=6V$ , $R_{1-s}=3.3k\Omega$	1.04	1.3	1.55	V
$G_{1-s}$		$R_{1-s}=3.3k\Omega$		54		*
$G_{11-11}$		$V_{11-s}=11\sim 10V$ ( $1V_{p-p}$ )		0.99		*
$R_{e\textcircled{c}}$		R-X $f=3.58MHz$		280		$\Omega$
$V_{1-s}$		$V_{1H}=15V_{p-p}$	15			V

\* VOLTAGE GAIN



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