

New Jersey Semi-Conductor Products, Inc.

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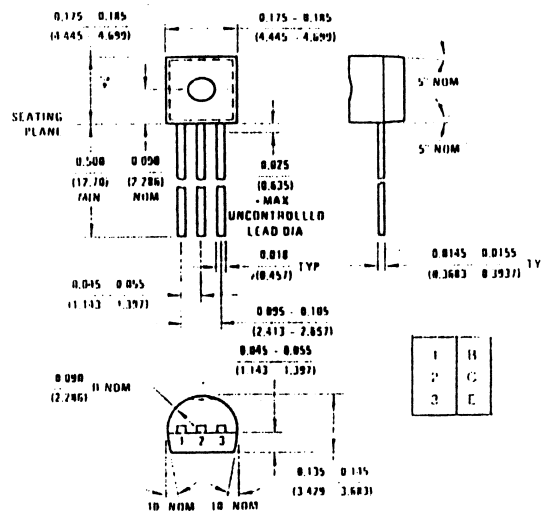
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2SA495

SILICON PNP EPITAXIAL

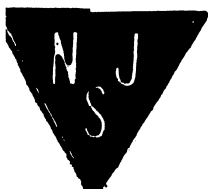
MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-35	V
Collector-Emitter Voltage	V_{CE0}	-30	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-100	mA
Emitter Current	I_E	100	mA
Total Device Dissipation	P_C	200	mW
Operating Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~125	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cutoff Current	I_{C0}	$V_{CB} = -15\text{V}, I_E = 0$	—	—	-0.5	μA
Emitter Cutoff Current	I_{E0}	$V_{EB} = -2\text{V}, I_C = 0$	—	—	-1.0	μA
DC Current Gain (h)	h_{FE}	$V_{CE} = -1\text{V}, I_C = -10\text{mA}$	70	—	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10\text{mA}, I_E = -10\text{mA}$	—	-0.2	-0.4	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -10\text{mA}, I_E = -1\text{mA}$	—	-0.8	-1.0	V
Current-Gain - Bandwidth Product	f_T	$V_{CE} = -10\text{V}, I_E = -10\text{mA}$	100	200	—	MHz
Base Resistance	r_{bb}	$V_{CE} = 6\text{V}, I_E = 1\text{mA}$ $f = 30\text{MHz}$	—	30	70	Ω
Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0$ $f = 1\text{MHz}$	—	5	7	pF
スイッチング時間 (ms)	Turn-On Time	t_{on}	—	30	—	ns
	Storage Time	t_{stg}	—	250	—	ns
	Turn-Off Time	t_f	—	30	—	ns



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Note (ii)

According to the value of t_{OFF} , the 2GA495 is classified as follows:

CLASSIFICATION	MIS.	MAX.
2GA495 - 0	70	140
2GA495 - Y	120	240

SWITCHED TIME TEST CIRCUIT

