

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

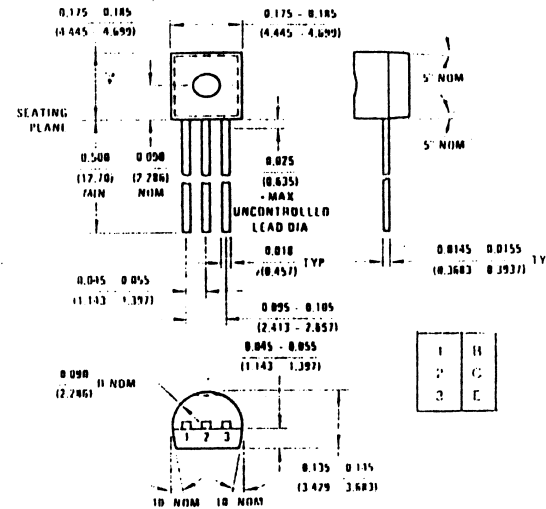
TELEPHONE: (973) 376-2922
(212) 227-8008
FAX: (973) 376-8960

2SA495

SILICON PNP EPITAXIAL

MAXIMUM RATINGS (Ta = 25°C)

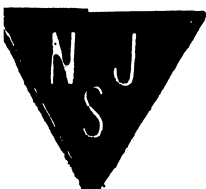
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	-3.5	V
Collector-Emmitter Voltage	V _{CE0}	-3.0	V
Emmitter-Base Voltage	V _{EB0}	-5	V
Collector Current	I _C	-100	mA
Emmitter Current	I _E	100	mA
Total Device Dissipation	P _C	200	mW
Operating Junction Temperature	T _J	125	°C
Storage Temperature	T _{stg}	-55~125	°C



Package Outlines

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cutoff Current	I _{C0}	V _{CB} = -15V, I _E = 0	-	-	-0.5	μA
Emmitter Cutoff Current	I _{E0}	V _{EB} = -2V, I _C = 0	-	-	-1.0	μA
DC Current Gain (I _B)	h _{FE}	V _{CE} = -1V, I _C = -10mA	70	-	240	
Collector-Emmitter Saturation Voltage	V _{CE(sat)}	I _C = -10mA, I _B = -1mA	-	-0.2	-0.4	V
Base-Emmitter Saturation Voltage	V _{BE(sat)}	I _C = -10mA, I _B = -1mA	-	-0.8	-1.0	V
Current-Gain - Bandwidth Product	f _T	V _{CE} = -10V, I _E = -10mA	100	200	-	MHz
Base Resistance	r _{bb}	V _{CE} = 6V, I _E = 1mA f = 30MHz	-	30	70	Ω
Output Capacitance	C _{ob}	V _{CB} = -10V, I _E = 0 f = 1MHz	-	5	7	pF
スイッチング時間 (III)	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	MIN.	MAX.
2GA495 - O	70	140
2GA495 - Y	120	240

SWITCHING TIME TEST CIRCUIT

