New Jersey Semi-Conductor Products, Inc.

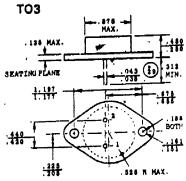
20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A.

TELEPHONE: (973) 376-2922

(212) 227-6005

FAX: (973) 376-8960

The 2N1651, 2N1652, and 2N1653 DAP transistors are designed for efficient high current switching at high frequencies. The diffused base gives very low input resistance and high cutoff frequency while still maintaining high breakdown voltage. The low input resistance gives better circuit stabilization at high temperatures and greatly increases the maximum available power gain. These transistors are capable of switching up to 1600 watts.



The diffused base alloy power transistors feature welded construction with a vacuumtight seal to insure long life and stable operation.

Absolute Maximum Ratings:

7,0001400	110000111011						
	V _{CE}	V _{СВ}	v _{eb}	$^{\mathrm{I}}\mathrm{c}$	P _C **	T _{stg}	j O
	<u>Vdc</u>	Vdc	<u>Vdc</u>	Adc	W	<u>°c</u>	<u>"C</u>
2N1651	60	60	2.0	25	100	-60 to +110	110
2N1652	100	100	See				
2N1653	120	120	Page 4				

 $^{*}\mathrm{P}_{\mathrm{C}}$ is the maximum average power dissipation. It can be exceeded during the switching Electrical Characteristics: Mounting base temperature 25°C unless otherwise specified.

	Symb.	Min.	Max.	Units
Current Gain	h _{FE}	20	• .	-
V _{CE} = -1.5 Vdc; I _C = 25 Adc Current Gain V _{CE} =-2 Vdc; I _C = 10 Adc	h _{FE}	35	J)†O	•
Collector Saturation Voltage	v _{CE}	-	1.0	Vdc
I _C = 25 Adc; I _B = 2.5 Adc	$\mathbf{v}_{ ext{CE}}^{ ext{BE}}$	-	1.5	Vdc
Emitter-Base Voltage I _{EBO} 50 mAdc; I _C 0	BVEBO	1.5	 .	Vdc
Collector-Emitter Breakiown: Voltage	BVCEO			
I _C = 500 mAdc; R _{BE} = ••	2N1651 2N1652	30 60		Vdc Vdc
	2N1653	80	-	Vdc

Typical Switching Characteristics:

Units Fall Time Storage Time Rise Time Switching Times 1.8 1.1 19 изес

Conditions:

V _{CC}	I _C	I _B (on)	I _B (off)	R _L ohms
12.5	25	2.5	-	0.5
12.5	25	•	2.5	0,5

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