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8368602 SOLITRON DEVICES INC

61C 00939 D

**POWER TRANSISTORS**  
2N3202 2N3203 2N3204

T-33-17

## PNP SILICON POWER TRANSISTORS MEDIUM POWER

**3 AMPERES**

### FEATURES

PLANAR CONSTRUCTION  
LOW SATURATION VOLTAGES  
FAST SWITCHING

### APPLICATIONS

HIGH SPEED SWITCHING CIRCUITS  
POWER AMPLIFIER



TO-5

### ABSOLUTE MAXIMUM RATINGS

		<u>2N3202</u>	<u>2N3203</u>	<u>2N3204</u>
$V_{CB0}$	COLLECTOR-BASE VOLTAGE	-40 V	-60 V	-80 V
$V_{CE0}$	COLLECTOR-EMITTER VOLTAGE	-40 V	-60 V	-80 V
$V_{EB0}$	EMITTER-BASE VOLTAGE	-10 V	-10 V	-10V
$I_C$	CONTINUOUS COLLECTOR CURRENT	- 3 A	- 3 A	- 3 A
$I_B$	CONTINUOUS BASE CURRENT	-1.5A	-1.5A	-1.5A
$T_J$	OPERATING JUNCTION TEMPERATURE	_____ -65°C to +200°C _____		
$T_{stg}$	STORAGE TEMPERATURE	_____ -65°C to +200°C _____		
$R_{\theta JC}$	THERMAL RESISTANCE, JUNCTION-TO CASE	20°C/W		
$P_D$	POWER DISSIPATION (25°C CASE)	8.75 W		

4-83-271

**IV-3**

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61C 00940 D

**POWER TRANSISTORS**  
**2N3202 2N3203 2N3204****ELECTRICAL CHARACTERISTICS (T<sub>C</sub> = 25°C UNLESS OTHERWISE NOTED)**

T-33-17

CHARACTERISTICS	SYMBOL	MIN.	MAX.	UNITS
COLLECTOR-EMITTER SUSTAINING VOLTAGE * (I <sub>C</sub> = -50mA)	V <sub>CE(sus)</sub>	-40 -60 -80		V V V
COLLECTOR CUTOFF CURRENT (V <sub>CE</sub> = RATED V <sub>CE</sub> , V <sub>BE</sub> = 1.5V) (V <sub>CE</sub> = ½ RATED V <sub>CE</sub> , V <sub>BE</sub> = 1.5 V T <sub>C</sub> = 150°C)	I <sub>CEX</sub>		-75 -250	μA μA
COLLECTOR CUTOFF CURRENT (I <sub>B</sub> = 0, V <sub>CE</sub> = ½ RATED V <sub>CE</sub> )	I <sub>CEO</sub>		-100	μA
EMITTER CUTOFF CURRENT (V <sub>EB</sub> = -10V)	I <sub>EBO</sub>		-50	μA
DC CURRENT GAIN * (I <sub>C</sub> = -1A, V <sub>CE</sub> = -2V) (I <sub>C</sub> = -0.5A, V <sub>CE</sub> = -2 V)	h <sub>FE</sub>	20 30	60	
COLLECTOR-EMITTER SATURATION VOLTAGE * (I <sub>C</sub> = -1A, I <sub>B</sub> = -0.1A)	V <sub>CE(sat)</sub>		-0.3	V
BASE-EMITTER VOLTAGE (I <sub>C</sub> = -1A, V <sub>CE</sub> = -3 V)	V <sub>BE</sub>		-1.3	V
MAGNITUDE OF SMALL SIGNAL GAIN (V <sub>CE</sub> = -2V, I <sub>C</sub> = -1A, f = 1MHz)	[h <sub>fe</sub> ]	1.0		
SMALL SIGNAL GAIN (V <sub>CE</sub> = -2V, I <sub>C</sub> = -1A, f = 1KHz)	h <sub>fe</sub>	10	60	
For typical curves see SDT3775, SDT3776 and SDT3777				

\* Pulsed 300 μsec; 2% Duty Cycle

IV-4

2770

B-07