

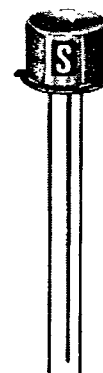
[查询"2N3204"供应商](#)

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

2769

B-06

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8368602 SOLITRON DEVICES INC

61C 00940 D

POWER TRANSISTORS**2N3202 2N3203 2N3204****ELECTRICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)**

T-33-17

CHARACTERISTICS	SYMBOL	MIN.	MAX.	UNITS
COLLECTOR-EMITTER SUSTAINING VOLTAGE * ($I_C = -50\text{mA}$)	$V_{CE(sus)}$	-40 -60 -80		V V V
COLLECTOR CUTOFF CURRENT ($V_{CE} = \text{RATED } V_{CE}, V_{BE} = 1.5\text{V}$) ($V_{CE} = \frac{1}{2} \text{ RATED } V_{CE}, V_{BE} = 1.5\text{V } T_C = 150^\circ\text{C}$)	I_{CEX}		-75 -250	μA μA
COLECTOR CUTOFF CURRENT ($I_B = 0, V_{CE} = \frac{1}{2} \text{ RATED } V_{CE}$)	I_{CEO}		-100	μA
EMITTER CUTOFF CURRENT ($V_{EB} = -10\text{V}$)	I_{EBO}		-50	μA
DC CURRENT GAIN * ($I_C = -1\text{A}, V_{CE} = -2\text{V}$) ($I_C = -0.5\text{A}, V_{CE} = -2\text{V}$)	h_{FE}	20 30	60	
COLLECTOR-EMITTER SATURATION VOLTAGE * ($I_C = -1\text{A}, I_B = -0.1\text{A}$)	$V_{CE(sat)}$		-0.3	V
BASE-EMITTER VOLTAGE ($I_C = -1\text{A}, V_{CE} = -3\text{V}$)	V_{BE}		-1.3	V
MAGNITUDE OF SMALL SIGNAL GAIN ($V_{CE} = -2\text{V}, I_C = -1\text{A}, f = 1\text{MHz}$)	$[h_{fe}]$	1.0		
SMALL SIGNAL GAIN ($V_{CE} = -2\text{V}, I_C = -1\text{A}, f = 1\text{KHz}$)	h_{fe}	10	60	
For typical curves see SDT3775, SDT3776 and SDT3777				

* Pulsed 300 μsec ; 2% Duty Cycle

IV-4

2770

B-07