

Ampower Semiconductor Corp.
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 Hauppauge, N. Y. 11787

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INTERIM BULLETIN

Subject to Revision Without Notice

-APRIL 15, 1971



**POWER TRANSISTOR
 ENGINEERING BULLETIN**

**TYPE P 1067 thru P 1084, 2 AMP NPN
 SILICON PLANAR POWER TRANSISTORS**

**TYPE PG1067 thru PG1084, 2 AMP NPN
 SILICON PLANAR POWER TRANSISTORS**

- TO-5
- 90 MHz (typical)
- 5 WATTS @ 100° C

MAXIMUM RATINGS @ 25° C Ambient (Unless otherwise noted.)

RATING	PG1067	PG1068	PG1069	PG1070	PG1071	PG1072	UNIT	
	PG1073	PG1074	PG1075	PG1076	PG1077	PG1078		
Collector-Base Voltage	80	100	120	140	150	170	Volts	
Collector-Emitter Voltage	60	80	100	120	140	160	Volts	
Emitter-Base Voltage	6	6	6	6	6	6	Volts	
Collector Current	2	2	2	2	2	2	Amps	
Base Current	0.5	0.5	0.5	0.5	0.5	0.5	Amps	
Storage Temperature							-65 to 200	°C
Operating Junction Temp.							-65 to 200	°C
Dissipation @ 100° C Case	5	5	5	5	5	5	Watts	
Linear Derating Factor	50	50	50	50	50	50	mW/°C	

ELECTRICAL CHARACTERISTICS @ 25° C CASE TEMPERATURE (Unless otherwise noted.)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
I_{CEX}	$V_{CE} = 60V, V_{BE} = -0.5V, T_C = 150° C$	All		10	μA
I_{CEX}	$V_{CE} = \text{MAX RATING}, V_{BE} = -0.5V$	All		10	μA
I_{CBO}	$V_{CB} = 60V, I_E = 0$	All		10	μA
I_{EBO}	$V_{EB} = 6V$	All		10	μA
$BV_{CEO} (sus)^*$	$I_B = 0, I_C = 10mA$	All	Max. Rating		Volts
I_{CEO}	$I_B = 0, V_{CE} = 60V$	All		100	μA
h_{FE}^*	$I_C = 0.5A, V_{CE} = 5V$	PG1067 thru PG1072	30	90	

PIRGO ELECTRONICS INC.
 A Sprague Electric Company Subsidiary
 Pembroke Road, Concord, N.H. 03301

**ENGINEERING
 BULLETIN
 31,518**

PG--1067-1X

ELECTRICAL CHARACTERISTICS @ 25° C (Continued)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
h_{FE}^*	$I_C = 0.5A, V_{CE} = 5V$	PG1073 thru PG1078 PG1079 thru PG1084	50	150	
$V_{CE(sat)}^*$	$I_C = 0.5A, I_B = 50mA$	All		0.35	Volts
V_{BE}^*	$I_C = 0.5A, V_{CE} = 5V$	All		2.0	Volts
$ h_{fe} $	$V_{CE} = 10V, I_C = 0.1A, f = 10MHz$	All	3		
C_{ob}	$V_{CB} = 10V, I_C = 0, f = 1 MHz$	All		50	pf

*Pulsed measurement: $PW \leq 330 \mu sec. \leq 2\%$ duty cycle.

PG--1067-2X

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