

A P I ELECTRONICS INC

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INTERIM BULLETIN

Subject to Revision Without Notice

-APRIL 15, 1971

PIRGO
ELECTRONICS INC.
POWER TRANSISTOR
ENGINEERING BULLETINTYPE PG1150 thru PG1156, 5 AMP NPN
SILICON PLANAR POWER TRANSISTORS

- TO-5
- 80 MHz (typical)
- 5 WATTS @ 100°C
- PREMIUM GRADE

MAXIMUM RATINGS @ 25°C AMBIENT (Unless otherwise noted)

RATING	2N2657	2N2658	PG1150	UNIT
	PG1151	PG1152	PG1153	
	PG1154	PG1155	PG1156	
Collector-Base Voltage	80	100	120	Volts
Emitter-Base Voltage	8	8	8	Volts
Collector-Emitter Voltage	60	80	100	Volts
Collector Current	5	5	5	Amps
Base Current	0.5	0.5	0.5	Amps
Storage Temperature		-65 to 200		°C
Operating Junction Temperature		-65 to 200		°C
Dissipation @ 100°C Case	5	5	5	Watts
Dissipation @ T _A = 25°C	1.25	1.25	1.25	Watts

ELECTRICAL CHARACTERISTICS @ 25°C Case Temp. (Unless otherwise noted)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
BV _{CBO} I _C = 10μA		PG1151	80		Volts
		PG1154			
		PG1152	100		Volts
		PG1155			
		PG1150	120		Volts
		PG1153			
BV _{CEO} * I _C = 10mA		PG1156			
		PG1151	60		Volts
		PG1154			
		PG1152	80		Volts
		PG1155			
		PG1150	100		Volts
		PG1153			
		PG1156			

PG--1150-1X

PIRGO ELECTRONICS INC.

A Sprague Electric Company Subsidiary

Pembroke Road, Concord, NH 03301

TYPE P 1150 thru P 1156, 5 AMP NPN
SILICON PLANAR POWER TRANSISTORSENGINEERING
BULLETIN
31,519

ELECTRICAL CHARACTERISTICS @ 25°C (Continued)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
BV_{EBO}	$I_E = 10\mu A$	All	8		Volts
$BV_{CEO(sus)}^*$	$I_B = 0, I_C = 100mA$	PG1151	60		Volts
		PG1154			
		PG1152	80		Volts
		PG1155			
		PG1150	100		Volts
		PG1153			
h_{FE}^*	$V_{CE} = 2V, I_C = 1A$	PG1150	40	120	
		PG1151	20	60	
		thru			
		PG1153			
		PG1154	100	300	
		thru			
		PG1156			
	$V_{CE} = 6V, I_C = 5A$	PG1150	15		
		PG1151	10		
		thru			
		PG1153			
		PG1154	20		
		thru			
		PG1156			
	$V_{CE} = 2V, I_C = 1A, T_C = -55^\circ C$	PG1150	10		
		PG1151	5		
		thru			
		PG1153			
		PG1154	15		
		thru			
		PG1156			
$V_{CE(sat)}^*$	$I_C = 1A, I_B = 0.1A$	All		0.5	Volts
	$I_C = 5A, I_B = 0.5A$	All		3	Volts
V_{BE}^*	$I_C = 1A, I_B = 0.1A$	All		1.5	Volts
	$I_C = 5A, I_B = 0.5A$	All		2.5	Volts
I_{CBO}	$V_{CB} = 60V, I_E = 0$	All		0.1	μA
I_{EBO}	$V_{EB} = 7V$	All		10	μA
I_{CEX}	$V_{CE} = \text{Rated } BV_{CBO}, V_{BE} = -0.5V$	All		10	μA
	$V_{CE} = 60V, V_{BE} = -0.5V, T_C = 150^\circ C$	All		50	μA
$ h_{fe} $	$V_{CE} = 10V, I_C = 0.2A, f = 10MHz$	All	2		

*Pulse Test: PW = 300 μs ; 2% duty cycle.

PG--1150-2X

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