

INTERIM BULLETIN

Subject to Revision Without Notice

-JUNE 22, 1970

POWER TRANSISTOR
ENGINEERING BULLETINTYPE P 1118 thru P 1135, 2 AMP NPN
SILICON PLANAR POWER TRANSISTORSTYPE PG1118 thru PG1135, 2 AMP NPN
SILICON PLANAR POWER TRANSISTORS

- TO-66
- 16 WATTS @ 100° C
- 90 MHz (typical)

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

RATING	PG1118	PG1119	PG1120	PG1121	PG1122	PG1123	PG1124	PG1125	PG1126	PG1127	PG1128	PG1129	PG1130	PG1131	PG1132	PG1133	PG1134	PG1135	UNIT
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	16	16	16	16	16	16													Watts
Linear Derating Factor	160	160	160	160	160	160													mW/°C

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

SYMBOL	CONDITIONS	TYPES	LIMIT MIN. MAX.	UNIT
I_{CEX}	$V_{CE} = 60V, V_{BE} = -0.5V, T_C = 150^\circ C$	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}^*	$I_C = 0.5A, V_{CE} = 5V$	PG1118 thru PG1123	30 90	

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PG-1118-1X

ENGINEERING
BULLETIN
31,516

ELECTRICAL CHARACTERISTICS @ 25° C (Continued)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
h_{FE}^*	$I_C = 0.5A, V_{CE} = 5V$	PG1124 thru PG1129 PG1130 thru PG1135	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: $PW \leq 330 \mu sec$; $\leq$ duty cycle.

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