

## 10 AMP NPN PLANAR

o TO-5

o 60 MHz (typical)

o 5 WATTS @ 100°C

## MAXIMUM RATINGS @ 25°C AMBIENT

RATING	PG1319	PG1320	PG1321	UNIT
	PG1322	PG1323	PG1324	
Collector-Base Voltage	70	90	120	Volts
Emitter-Base Voltage	5	5	5	Volts
Collector - Emitter Voltage	50	70	100	Volts
Peak Collector Current	10	10	10	Amps
Continuous Collector Current	5	5	5	Amps
Continuous Base Current	2	2	2	Amps
Storage Temperature		-65 to 200°C		°C
Operating Junction Temperature		-55 to 200°C		°C
Dissipation @ 100°C Case	5	5	5	Watts
Linear Derating Factor	.05	.05	.05	W/°C

## ELECTRICAL CHARACTERISTICS @ 25°C

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
$I_{CEX}$	$V_{CE} = 60V, V_{BE} = -0.5V, T_C = 150°C$	All		100	$\mu A$
	$V_{CE} = 60V, V_{BE} = 0.5V$	All		10	$\mu A$
$I_{CBO}$	$V_{CB} = 50V, I_E = 0$	All		10	$\mu A$
$I_{CEO}$	$V_{CE} = 30V$	All		100	$\mu A$
$I_{EBO}$	$V_{EB} = 5V$	All		10	$\mu A$
$BV_{CEO(sus)}^*$	$I_B = 0, I_C = 100mA$	PG1319 PG1322 PG1325 PG1320 PG1323 PG1326		50   70	Volts   Volts

## ELECTRICAL CHARACTERISTICS @ 25°C (Continued)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN.	MAX.	
$BV_{CEO(sus)}$ *	$I_B = 0, I_C = 100\text{mA}$	PG1321 PG1324 PG1327 PG1319	100		Volts
$h_{FE}$ *	$I_C = 5A, V_{CE} = 5V$	thru PG1321 PG1322	20	60	
		thru PG1324 PG1325 PG1327	40	120	
$V_{CE(sat)}$ *†	$I_C = 5A, I_B = 0.5A$	All		1.0	Volts
$V_{BE(sat)}$ *†	$I_C = 5A, I_B = 0.5A$	All		2.0	Volts
$ h_{fe} $	$V_{CE} = 10V, I_C = 0.2A, f = 10\text{ MHz}$	All	1		

\*Pulse Measurement:  $PW \leq 330\mu\text{sec}$ ; 2% duty cycle.

† Measured within 1/4" of case.

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