

10 AMP NPN PLANAR

TO-61 (isolated)

60 MHz (typical)

40 WATT at 100°C

MAXIMUM RATINGS at 25°C

RATING	PG1367	PG1368	PG1369	UNIT
	PG1370	PG1371	PG1372	
	PG1373	PG1374	PG1375	
Collector-Base Voltage	70	80	120	Volts
Emitter-Base Voltage	6	6	6	Volts
Collector-Emitter Voltage	50	70	100	Volts
Collector Current	10	10	10	Amps
Base Current	2	2	2	Amps.
Thermal Resistance, θ_{jc}	2.5	2.5	2.5	°C/W
Dissipation at 100°C Case	40	40	40	Watts
Operating Junction Temperature	-65 to 200			°C
Storage Temperature Range	-65 to 200			°C

PG1367 thru PG1375

ELECTRICAL CHARACTERISTICS at 25°C

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN	MAX	
h_{FE}^*	$I_C=5A, V_{CE}=5V$	PG1367	20	60	
		PG1368			
		PG1369			
		PG1370	40	120	
		PG1371			
	$I_C=5A, V_{CE}=5V, T_C=-55°C$	PG1372			
		PG1373	100	300	
		PG1374			
		PG1375			
		PG1368	10		
$V_{CE(sat)}^*$	$I_C=5A, I_B=0.5A$	PG1369			
		PG1370	15		
V_{BE}^*	$I_C=5A, V_{CE}=5V$	PG1371			
		PG1372			
$V_{BE(sat)}^*$	$I_C=5A, I_B=0.5A$	PG1373	20		
		PG1374			
		PG1375			
		All		0.6	Volts
		All		2.0	Volts
		All		2.0	Volts

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

PG--1367-1X

ELECTRICAL CHARACTERISTICS at 25°C (cont.)

SYMBOL	CONDITIONS	TYPES	LIMIT		UNIT
			MIN	MAX	
BV _{CBO}	I _C =10μA, I _E =0	PG1367	70		Volts
		PG1370			
		PG1373			
		PG1368	80		Volts
		PG1371			
		PG1374			
		PG1369	120		Volts
BV _{CEO(sus)} *	I _C =100mA, I _B =0	PG1372			
		PG1375			
		PG1367	50		Volts
		PG1370			
		PG1373			
		PG1368	80		Volts
		PG1371			
BV _{EBO}	I _E =10μA, I _C =0	PG1374			
		PG1369	100		Volts
		PG1372			
		PG1375			
		All	6		Volts
I _{CEX}	V _{BE} =-0.5V, V _{CE} =BV _{CBO}	All		10	μA
	V _{BE} =-0.5V, V _{CE} =50V, T _C =150°C	All		100	μA
I _{CBQ}	V _{CB} =50V, I _E =0	All		10	μA
I _{CEO}	V _{CE} =30V, I _B =0	All		100	μA
I _{EBO}	V _{EB} =6V, I _C =0	All		10	μA
h _{fe}	V _{CE} =10V, I _C =1A, f=10MHz	All		1.0	
C _{ob}	V _{CB} =10V, f=1MHz	All		350	pf
h _{FE}	I _C =5A, V _{CE} =5V, T _C =-55°C	PG1360	10		
		PG1362			
		PG1364			
		PG1361	15		
		PG1363			
		PG1365			
		PG1366	20		
V _{CE(sat)} *	I _C =5A, I _B =-0.5A	All		0.5	Volts
	I _C =10A, I _B =1A	PG1360		2.5	Volts
		PG1362			
		PG1364			
V _{BE} *	I _C =5A, V _{CE} =5V	All Others		1.5	Volts
V _{BE} *	I _C =5A, V _{CE} =5V	All		1.2	Volts
V _{BE(sat)} *	I _C =5A, I _B =0.5A	All		1.2	Volts
	I _C =10A, I _B =1A	All		2.0	Volts

PG-1367-2X

PG1367-131575