

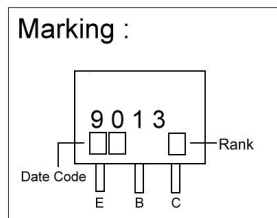
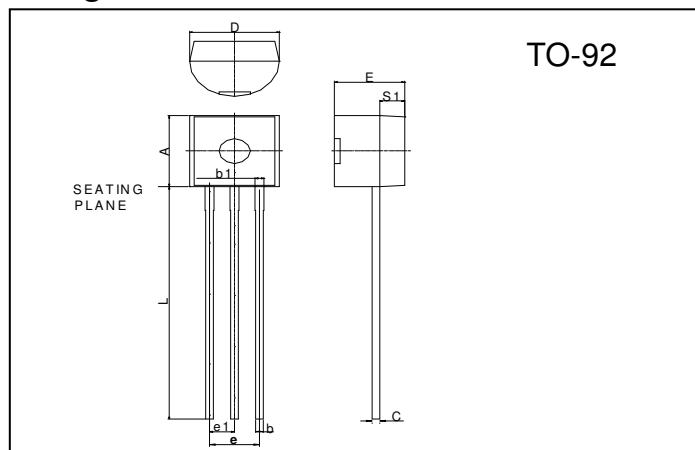
G9013

NPN EPITAXIAL TRANSISTOR

Description

The G9013 is designed for use in 1W output amplifier of portable radios in class B push-pull operation.

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55 ~ +150	°C
Collector to Base Voltage	VCBO	40	V
Collector to Emitter Voltage	VCEO	20	V
Emitter to Base Voltage	VEBO	5	V
Collector Current	IC	500	mA
Total Power Dissipation	PD	625	mW

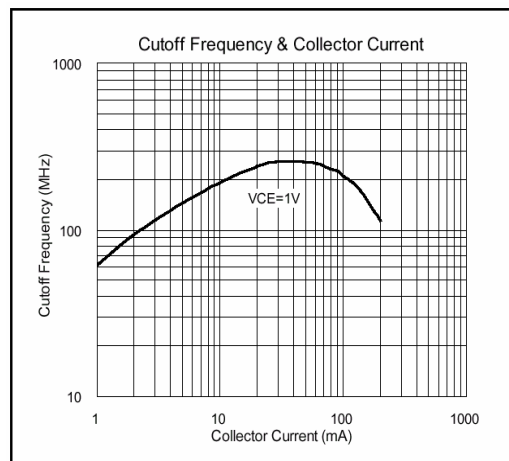
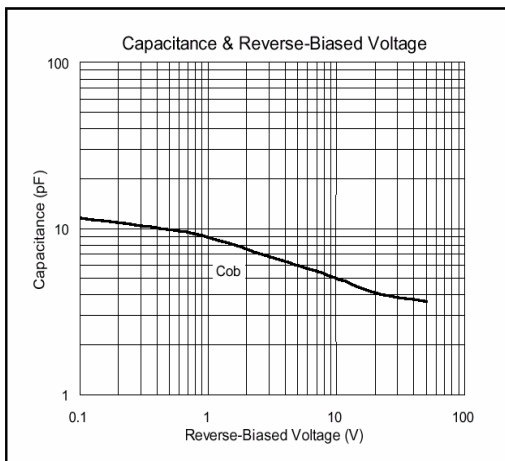
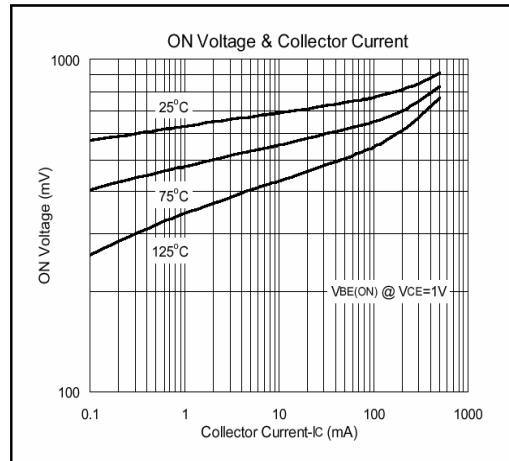
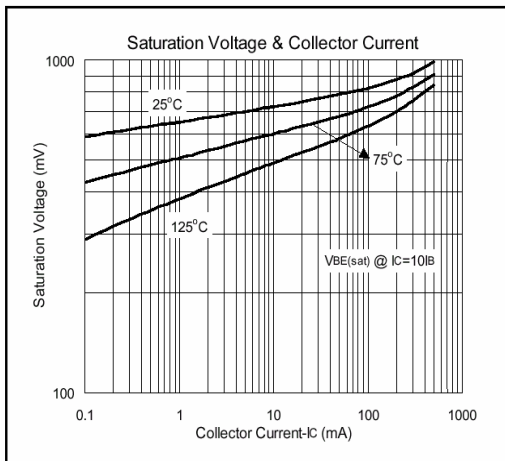
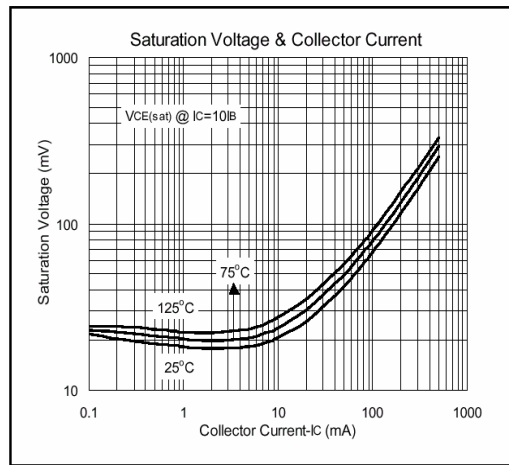
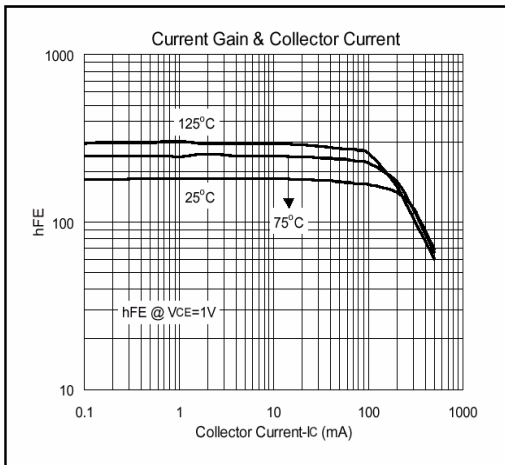
Characteristics at Ta = 25°C

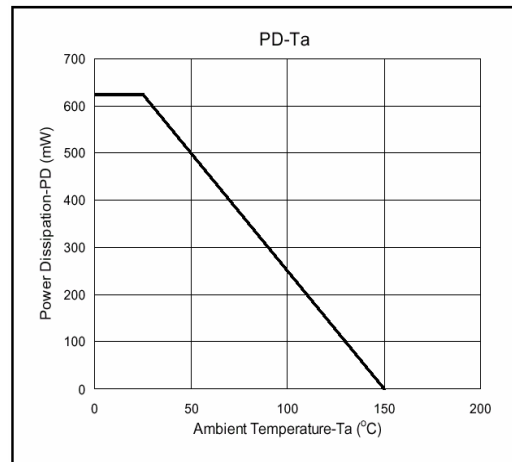
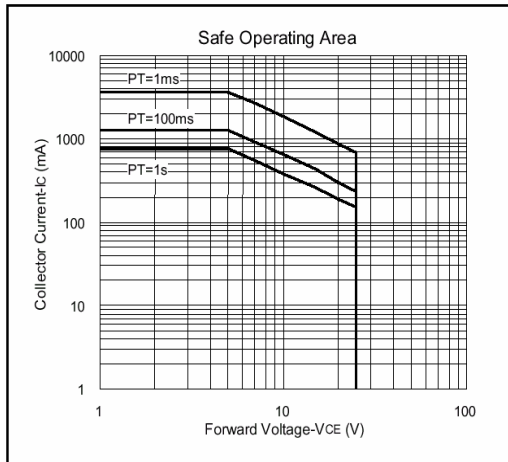
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	IC=100uA, IE=0
BVCEO	20	-	-	V	IC=1mA, IB=0
BVEBO	5	-	-	V	IE=100uA, IC=0
ICBO	-	-	100	nA	VCB=25V, IE=0
IEBO	-	-	100	nA	VEB=3V, IC=0
VCE(sat)	-	-	0.6	V	IC=500mA, IB=50mA
VBE(sat)	-	-	1.2	V	IC=500mA, IB=50mA
VBE(on)	-	-	0.9	V	VCE=1V, IC=10mA
hFE1	112	180	300		VCE=1V, IC=50mA
hFE2	40	-	-		VCE=1V, IC=500mA
fT	100	-	-	MHz	VCE=1V, IC=10mA, f=100MHz
Cob	-	-	8	pF	VCB=10V, f=1MHz

Classification Of hFE1

Rank	G	H	L
hFE1	112 - 166	144 - 202	176 - 300

Characteristics Curve





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