



CPH5506_PNP

ON Semiconductor®

SPICE PARAMETER

PNP Bipolar Transistor

model : Gummel-Poon

Parameter	Value	Unit	Parameter	Value	Unit
IS	200f	A	BF	250	
NF	1		VAF	3	V
IKF	370m	A	ISE	100f	A
NE	2		BR	78	
NR	1		VAR	20	V
IKR	215m	A	ISC	1p	A
NC	2		RB	1.7	Ohm
IRB	50m	A	RBM	91m	Ohm
RE	48m	Ohm	RC	28m	Ohm
XTB	1.3		EG	1.11	eV
XTI	3		CJE	80p	F
VJE	680m	V	MJE	400m	
TF	280p	sec	XTF	10	
VTF	4	V	ITF	400m	A
PTF	0	deg	CJC	28p	F
VJC	500m	V	MJC	400m	
XCJC	1		TR	50p	sec
FC	500m		KF	0	(default)
AF	1	(default)			

Temp = 27 deg

Date : 2007/3/12

*Information herein is for example only ;
It is not guaranteed for volume production.

ON Semiconductor



CPH5506_NPN

ON Semiconductor®

SPICE PARAMETER

NPN Bipolar Transistor

model : Gummel-Poon

Parameter	Value	Unit	Parameter	Value	Unit
IS	190f	A	BF	310	
NF	1		VAF	5	V
IKF	440m	A	ISE	100f	A
NE	2		BR	72	
NR	1		VAR	40	V
IKR	300m	A	ISC	10p	A
NC	2		RB	1.45	Ohm
IRB	50m	A	RBM	82m	Ohm
RE	45m	Ohm	RC	55m	Ohm
XTB	1.3		EG	1.11	eV
XTI	3		CJE	89p	F
VJE	700m	V	MJE	330.0m	
TF	280p	sec	XTF	10	
VTF	5	V	ITF	1	A
PTF	0	deg	CJC	20p	F
VJC	600m	V	MJC	400m	
XCJC	1		TR	50p	sec
FC	500.0m		KF	0	(default)
AF	1	(default)			

Temp = 27 deg
Date : 2007/3/12

*Information herein is for example only ;
It is not guaranteed for volume production.

ON Semiconductor