

SS9011

AM Converter, AM/FM IF Amplifier **General Purpose Transistor** WWW.DZSC.COM



1. Emitter 2. Base 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	30	А
Pc	Collector Dissipation	400	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = 100 \mu A, I_E = 0$	50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 1 \text{mA}, I_B = 0$	30			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = 100 \mu A, I_C = 0$	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 50 \text{ V}, I_{E} = 0$			100	nA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$			100	nA
h _{FE}	DC Current Gain	$V_{CE} = 5V$, $I_C = 1mA$	28	90	198	_ 1
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 10mA$, $I_B = 1mA$		0.08	0.3	V
V _{BE} (on)	Base-Emitter on Voltage	$V_{CE} = 5V$, $I_C = 1mA$	0.65	0.7	0.75	V
C _{ob}	Output Capacitance	$V_{CB} = 10V, I_E = 0$ f = 1MHz	150	1.5 370	W.OZ	pF
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V$, $I_C = 1mA$		2.0		MHz
NF	Noise Figure	$V_{CE} = 5V, I_{C} = 1.0 \text{ mA}$ f=1MHz, R _S = 500 Ω			4.0	dB
n _{FE} Classification						

h_{FE} Classification

Classification	D	E	F	G	Н	I
h _{FE}	28 ~ 45	39 ~ 60	54 ~ 80	72 ~ 108	97 ~ 146	132 ~ 198

Typical Characteristics

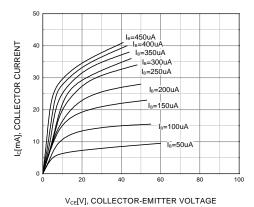


Figure 1. Static Characteristic

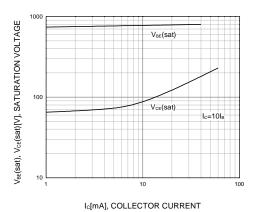


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

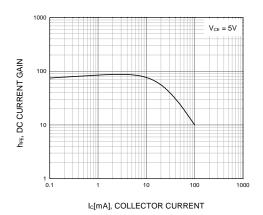


Figure 2. DC current Gain

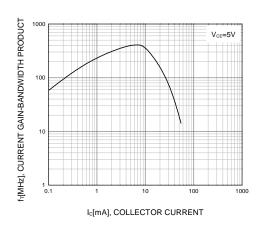
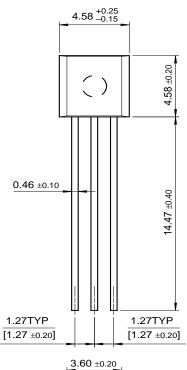


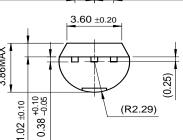
Figure 4. Current Gain Bandwidth Product

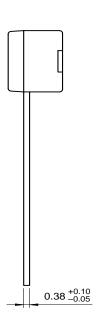
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Package Demensions

TO-92







Dimensions in Millimeters

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