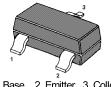
NPN Silicon Epitaxial Planar Transistors

for switching and amplifier applications.

As complementary types the PNP transistor MMBT9012 is recommended.



1. Base 2. Emitter 3. Collector TO-236 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	40	V
Collector Emitter Voltage	V _{CEO}	30	V
Emitter Base Voltage	V _{EBO}	5	V
Collector Current	Ι _C	500	mA
Power Dissipation	P _{tot}	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

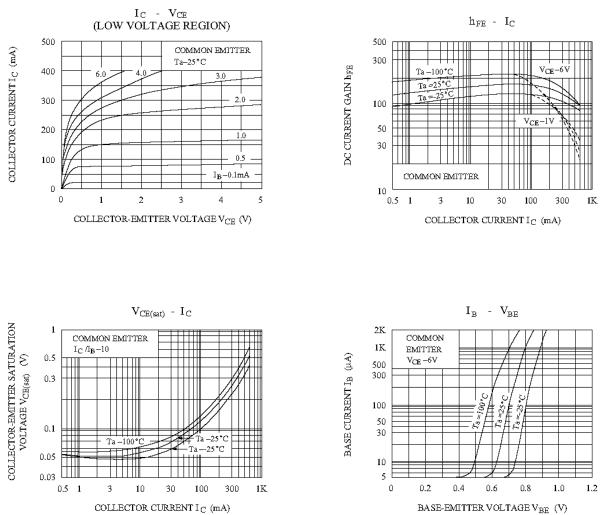
$\frac{1}{2} = 25^{\circ} C$	Oursels al	N.4iva	Max	1.1
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at V_{CE} = 1 V, I_C = 50 mA H	h _{FE} h _{FE}	100 160	250 400	-
at V _{CE} = 1 V, I _C = 500 mA	h _{FE}	40	-	-
Collector Base Cutoff Current at V_{CB} = 35 V	I _{CBO}	-	100	nA
Emitter Base Cutoff Current at V _{EB} = 5 V	I _{EBO}	-	100	nA
Collector Bae Breakdown Voltage at I _C = 100 µA	V _{(BR)CBO}	40	-	V
Collector Emitter Breakdown Voltage at I _C = 1 mA	V _{(BR)CEO}	30	-	V
Emitter Base Breakdown Voltage at I _E = 100 μA	V _{(BR)EBO}	5	-	V
Collector Emitter Saturation Voltage at I_{C} = 500 mA, I_{B} = 50 mA	V _{CE(sat)}	-	0.6	V
Base Emitter Saturation Voltage at I_C = 500 mA, I_B = 50 mA	$V_{\text{BE(sat)}}$	-	1.2	V
Base Emitter Voltage at V_{CE} = 1 V, I_{C} = 100 mA	V_{BE}	-	1	V
Gain Bandwidth Product at V_{CE} = 6 V, I_C = 20 mA	f⊤	100	-	MHz







Dated : 16/03/2015 Rev:01





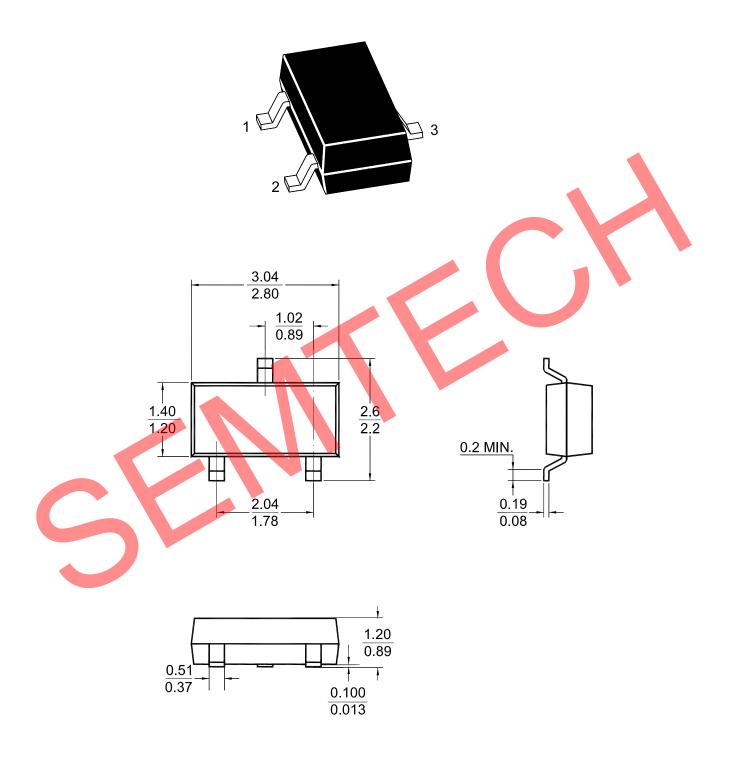


SEMTECH ELECTRONICS LTD.



Dated : 16/03/2015 Rev:01

Package Outline Dimensions (Units: mm)







Dated : 23/10/2010 Rev:01

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 2SC2712S-GR,LF
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