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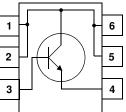


FMBS2383 NPN Epitaxial Silicon Transistor

Features

- Power Amplifier
- Collector-Emitter Voltage : V_{CEO}=160V
- Current Gain Bandwidth Product : f_T=120MHz





Absolute Maximum Ratings $T_a = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	5	V
Ι _C	Collector Current	800	mA
I _B	Base Current	160	mA
PD	Power Dissipation	630	mW
$R_{\theta JA}^{*}$	Thermal Resistance, Junction to Ambient	200	°C/W
T _J Junction Temperature		150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

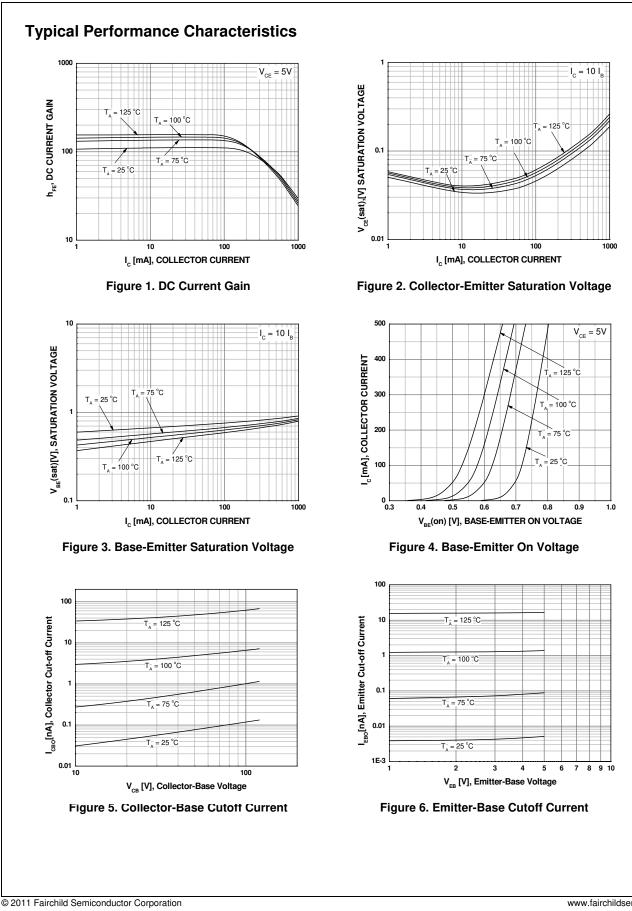
* note1) : Minimum land pattern size

Electrical Characteristics $T_a = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = 10 \mu A, I_{\rm B} = 0$	160			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA, I _B = 0	160			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{E} = 1 \text{mA}, I_{C} = 0$	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 120V, I _E = 0			100	nA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$			100	nA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_{C} = 100mA$	80		160	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 500mA, I _B = 50mA			1.0	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = 5V, I_{C} = 500mA$			1.0	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V, I_{C} = 100mA$		120		MHz
C _{ob}	Output Capacitance	$V_{CB} = 10V, I_E = 0, f = 1MHz$			30	pF

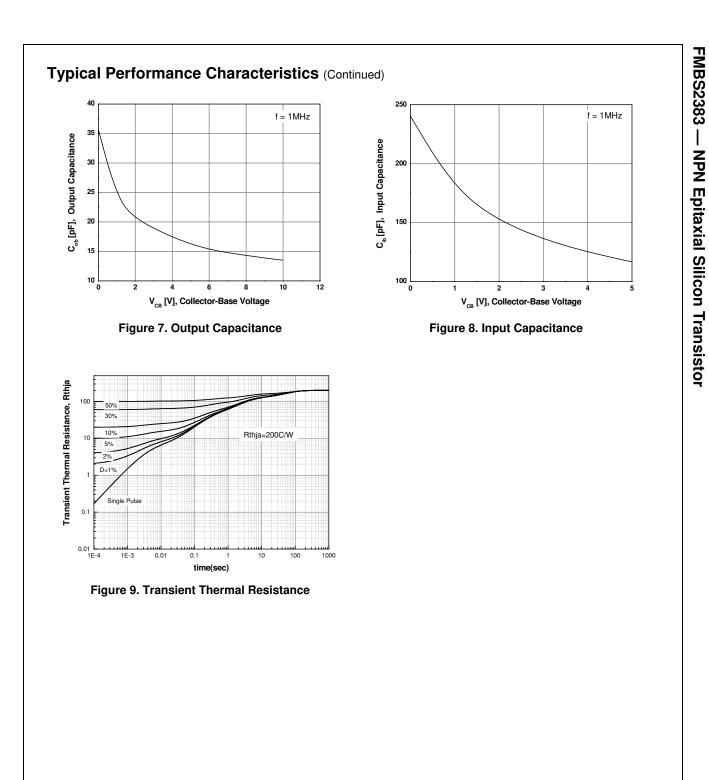
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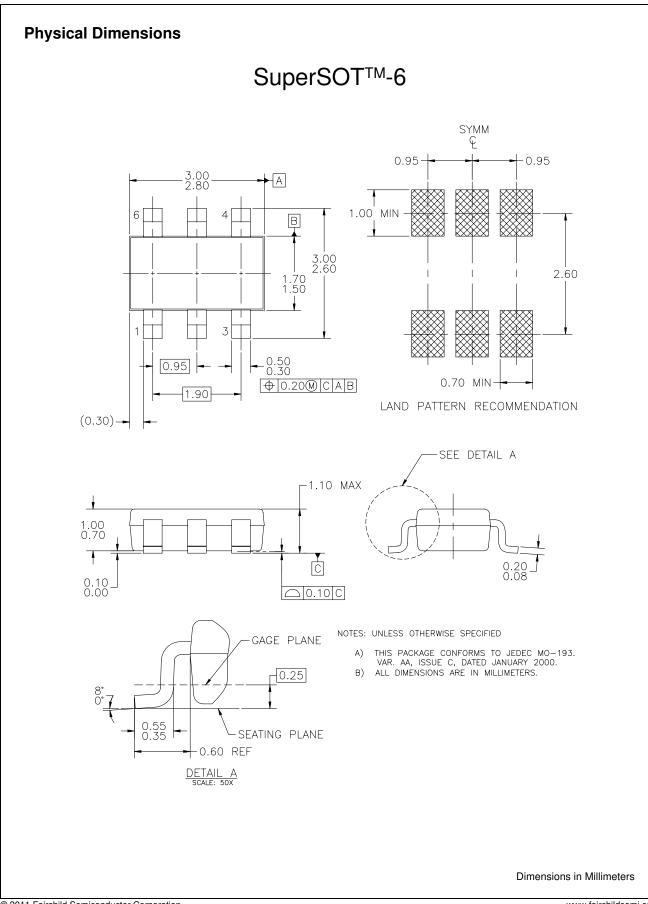
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FMBS2383 — NPN Epitaxial Silicon Transistor





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No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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