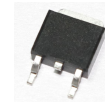


D4127

NPN Silicon Transistor

High Voltage Switch Mode Application

DRAWING



1. Base 2. Collector 3. Emitter

Features

- ③ High Voltage Capability
- ③ High Speed Switching
- ③ Suitable for Switching Regulator and Motor Control
- ③ Case:TO-252

Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

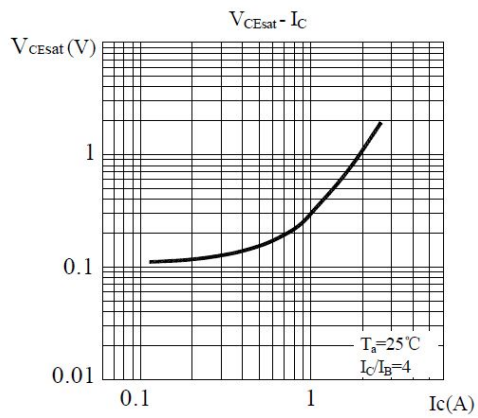
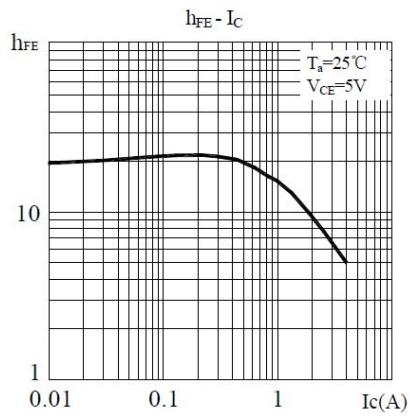
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	700	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	9	V
I _C	Collector Current(DC)	2	A
I _{CP}	Collector Current(Pulse)	6	A
I _B	Base Current	1	A
P _C	Collector Dissipation	1.25	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65~150	°C

Electrical Characteristics (Tc=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =1mA, I _B =0	400			V
I _{EBO}	Emitter Cut-off Current	V _{EB} =9V, I _C =0			1	mA
H _{fe1}	DC Current Gain	V _{CE} =5V, I _C =1mA	6		50	
H _{fe2}		V _{CE} =5V, I _C =0.5A	30	35	50	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =0.5A, I _B =0.1A			0.45	V
		I _C =1.5A, I _B =0.30A			0.95	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =0.5A, I _B =0.1A			0.95	V
		I _C =1.5A, I _B =0.30A			1.20	V
F _t	Current Gain Bandwidth Product	V _{CE} =10V, I _C =0.5A	4			MHz
C _{ob}	Output Capacitance	V _{CB} =10V, F=0.1MHZ		110		PF
T _{on}	Turn On time	V _{CC} =125V, I _C =0.5A I _{B1} =-I _{B2} =1A R _L =50Ω,			1.6	us
T _{STG}	Storage Time				3	us
T _F	Fall Time				0.7	us

Pulse Test:PW≤300us,Duty Cycle≤2%

Thermal Performance Characteristics



Mechanical Dimensions

