



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Tc=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current	3	А
IB	Base Current	0.3	Α
P _C	Collector Power Dissipation (T _C =25°C)	25	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

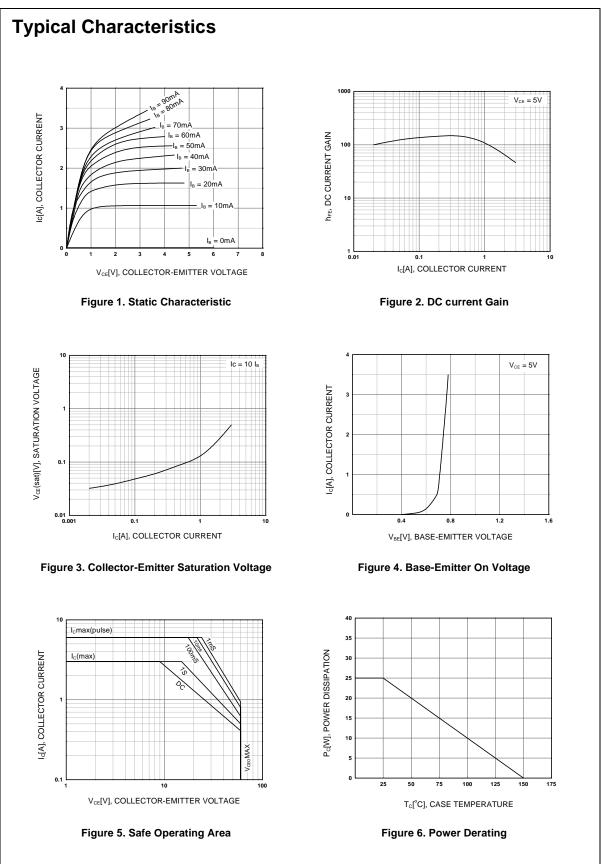
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 50 {\rm mA}, I_{\rm B} = 0$	60			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 60V, I_E = 0$			100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 7V, I_{C} = 0$			10	μΑ
h _{FE1}	DC Current Gain	$V_{CE} = 5V, I_{C} = 0.5A$	100		320	
h _{FE2}		$V_{CE} = 5V, I_{C} = 3A$	20			- 5
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_{\rm C} = 2A, I_{\rm B} = 0.2A$		0.4	1	V
V _{BE} (on)	Base-Emitter ON Voltage	$V_{CE} = 5V, I_{C} = 0.5A$		0.7	1	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V, I_{C} = 0.5A$		3	075	MHz

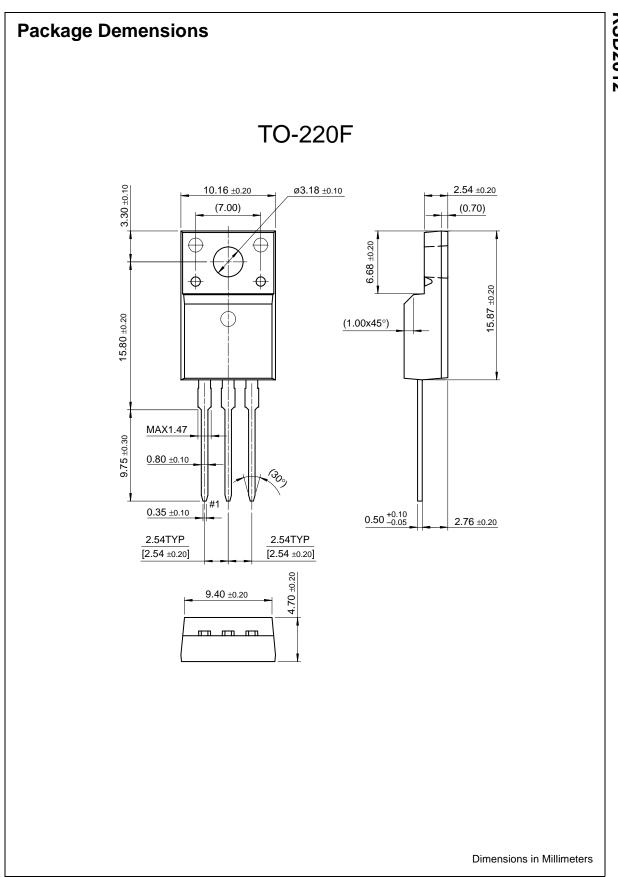
h_{FE} Classification

Classification	Y	G		
h _{FE1}	100 ~ 200	150 ~ 320		
	50			





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