G6718

NPN EPITAXIAL PLANAR TRANSISTOR

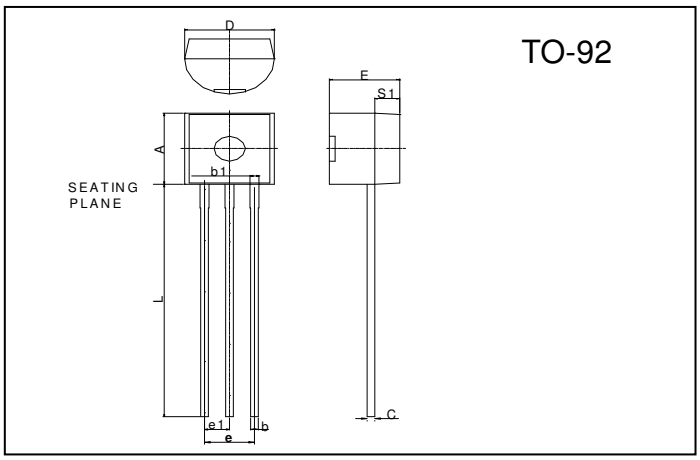
Description

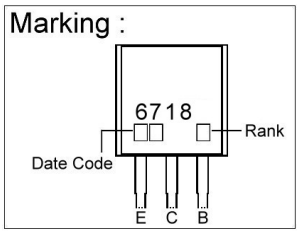
The G6718 is designed for general purpose medium power amplifier and switching applications.

Features

- High Power: 850mW
- High Current: 1A

Package Dimensions





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S_1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b_1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

Absolute Maximum Ratings (T_A=25℃)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	100	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	1	A
Collector Current (Pulse)	I_C	2	A
Base Current	I_B	200	mA
Total Device Dissipation	P_D	850	mW
Junction Temperature	T_J	150	℃
Storage Temperature	T_{stg}	-55 ~ +150	℃

Electrical Characteristics (T_A = 25℃ unless otherwise noted)

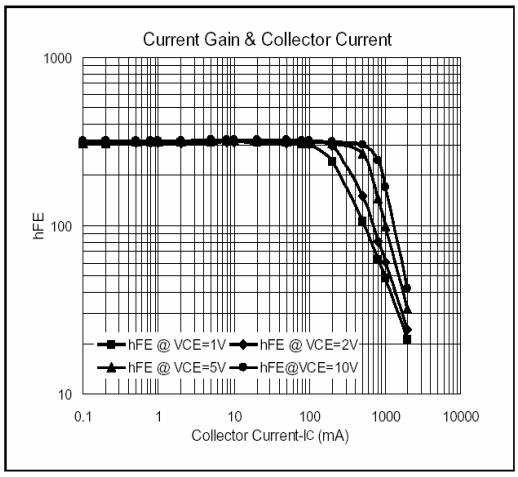
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV_{CBO}	100	-	-	V	I_C=100uA, I_E=0
BV_{CEO}	100	-	-	V	I_C=1mA, I_B=0
BV_{EBO}	5	-	-	V	I_E=10uA, I_C=0
I_{CBO}	-	-	100	nA	V_{CB}=80V, I_E=0
*$V_{CE(sat)}$	-	-	350	mV	I_C=350mA, I_B=35mA
*h_{FE}1	80	-	-		V_{CE}=1V, I_C=50mA
*h_{FE}2	50	-	300		V_{CE}=1V, I_C=250mA
*h_{FE}3	20	-	-		V_{CE}=1V, I_C=500mA
fT	50	-	-	MHz	V_{CE}=10V, I_E=50mA, f=100MHz
Cob	-	-	20	pF	V_{CB}=10V, I_E=0, f=1MHz

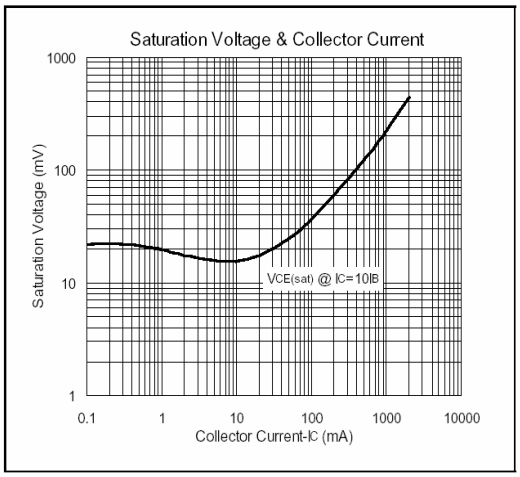
***Pulse Test: Pulse Width≦380μs, Duty Cycle≦2%**

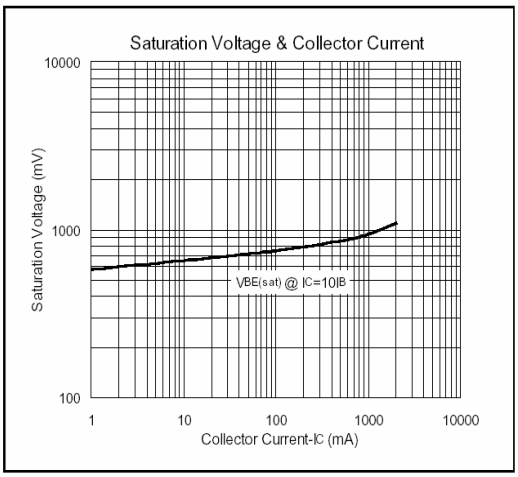
Classification Of h_{FE}2

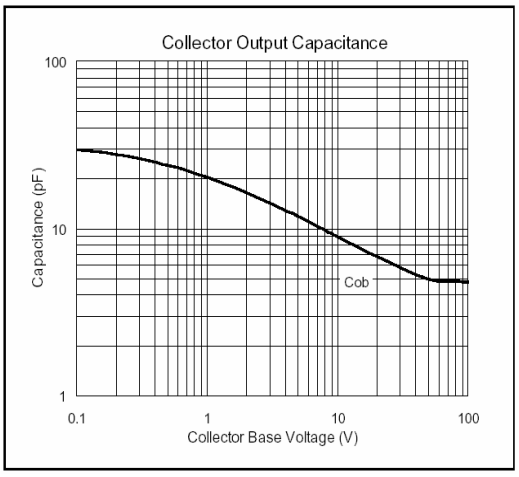
Rank	A	B
Range	50 ~ 115	95 ~ 300

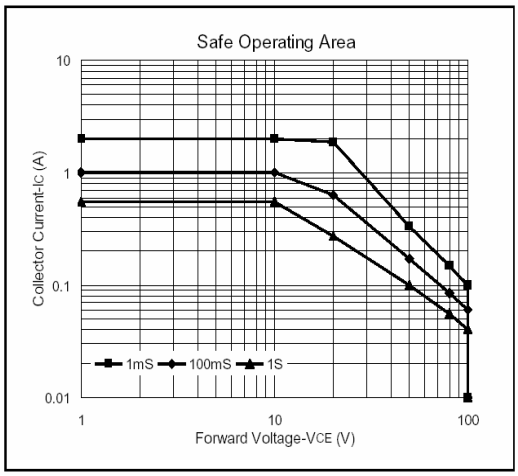
Characteristics Curve

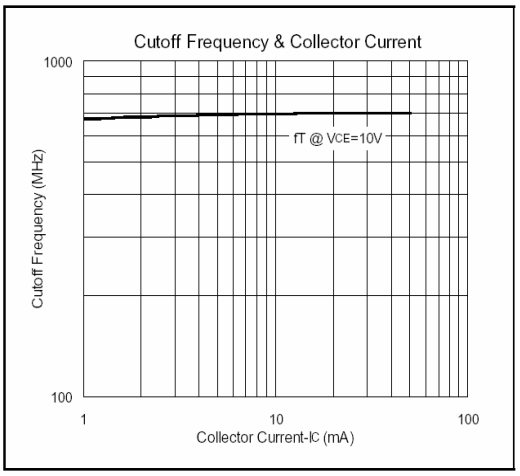












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