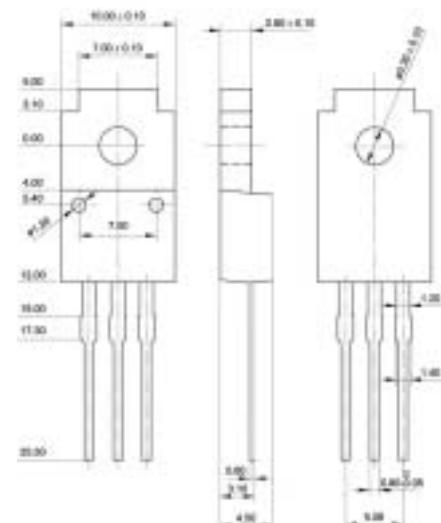


2SC3710

Silicon NPN Transistors



B C E



TO-220Fa

◆ Features

- . With TO-220Fa package
- . Complement to type 2SA1452
- . High current switching applications

◆ Absolute Maximum Ratings Tc=25°C

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to base voltage	80	V
V _{CEO}	Collector to emitter voltage	80	V
V _{EBO}	Emitter to base voltage	6	V
I _B	Base current	2	A
I _C	Collector current	12	A
P _C	Collector power dissipation	30	W
T _j	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~150	°C

◆ Electrical Characteristics Tc=25°C

SYMBOL	PARAMETER	CONDITIONS	MIN	Typ.	MAX	UNIT
I _{CBO}	Collector cut-off current	V _{CB} =80V; I _E =0			10	uA
I _{EBO}	Emitter cut-off current	V _{EB} =6V; I _C =0			10	uA
V _{CBO}	Collector-base breakdown voltage					
V _{CEO}	Collector-emitter breakdown voltage	I _C =50mA; I _B =0	80			V
V _{EBO}	Emitter-base breakdown voltage					
V _{CE(sat-1)}	Collector-emitter saturation voltages	I _C =6A; I _B =0.3A			0.4	V
V _{CE(sat-2)}	Collector-emitter saturation voltages					
h _{FE-1}	Forward current transfer ratio	I _C =1A; V _{CE} =1V	70		240	
h _{FE-2}	Forward current transfer ratio	I _C =6A; V _{CE} =1V	40			
V _{BE(sat-1)}	Base-emitter saturation voltages	I _C =6A; I _B =0.3A			1.2	V
V _{BE(sat-2)}	Base-emitter saturation voltages					
f _T	Transition frequency	I _C =1A; V _{CE} =5V		80		MHz
C _{ob}	Collector Output Capacitance	V _{CB} =10V; f=1MHz		220		pF

◆ h_{FE-1} Classifications

O	Y
70-140	120-240