

2N6543

Silicon NPN Transistors

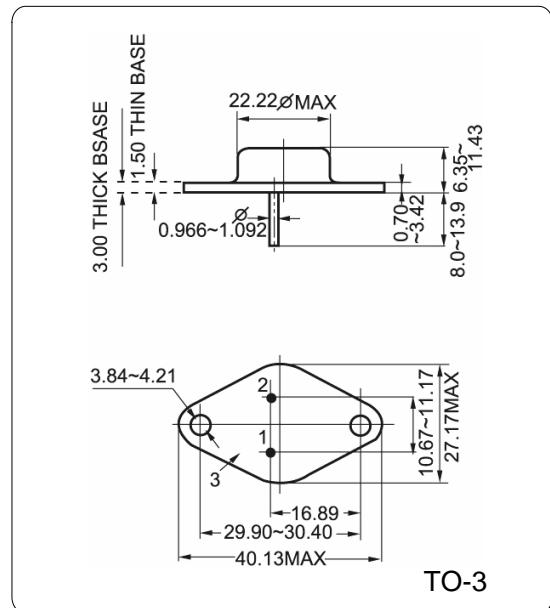


◆ Features

- Intended for high voltage, fast switching applications
- With TO-3 package

◆ Absolute Maximum Ratings Tc=25°C

SYMBOL	PARAMETER	RATING	UNIT
V _{CBO}	Collector to base voltage	850	V
V _{CEO}	Collector to emitter voltage	400	V
V _{EBO}	Emitter to base voltage	9.0	V
I _{CP}	Peak collector current	16	A
I _C	Collector current	5.0	A
P _C	Collector power dissipation	100	W
T _j	Junction temperature	200	°C
T _{stg}	Storage temperature	-65~200	°C



◆ Electrical Characteristics Tc=25°C

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{CBO}	Collector-base cut-off current	V _{CB} =850V, V _{BE} =0		0.5	mA
I _{EBO}	Emitter-base cut-off current	V _{EB} =9V; I _C =0		1.0	mA
I _{CEO}	Collector-emitter cut-off current				
V _{CBO}	Collector-base breakdown voltage				
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =100mA, I _B =0	400		V
V _{EBO}	Emitter-base breakdown voltage				
V _{CEsat-1}	Collector-emitter saturation voltages	I _C =5A; I _B =1A		1.5	V
V _{CEsat-2}	Collector-emitter saturation voltages	I _C =8A; I _B =2A		5.0	V
V _{CEsat-3}	Collector-emitter saturation voltages				
V _{CEsat-4}	Collector-emitter saturation voltages				
h _{FE-1}	Forward current transfer ratio	I _C =2.5A, V _{CE} =3V	12	60	
h _{FE-2}	Forward current transfer ratio	I _C =5A, V _{CE} =3V	7.0	35	
h _{FE-3}	Forward current transfer ratio				
h _{FE-4}	Forward current transfer ratio				
V _{BE(sat)1}	Base-emitter saturation voltages	I _C =5A; I _B =1A		1.6	V
V _{BE(sat)2}	Base-emitter saturation voltages				
V _{BE(sat)3}	Base-emitter saturation voltages				
f _T	Transition frequency at f = 1MHz	I _C =0.3A, V _{CE} =10V	6.0	24	MHz
t _f	Fall time				
t _s	Turn-off storage time				