



Silicon NPN Switching Transistors

2SC3835Y

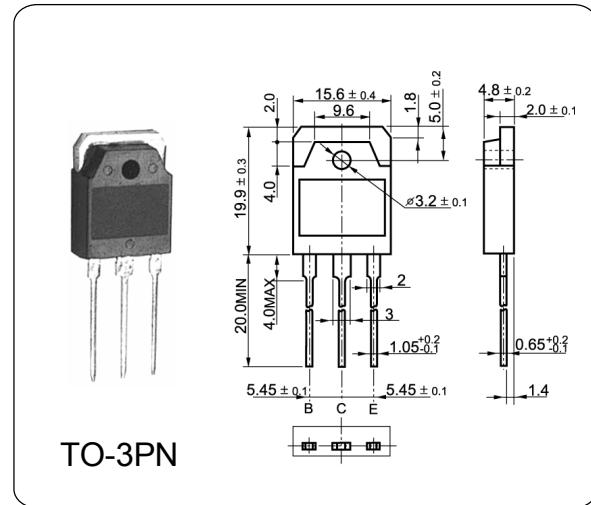


DESCRIPTION

The is an epitaxial planar type NPN silicon transistor

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	200	V
Collector-Emitter Voltage	V _{CEO}	110	V
Emitter-Base Voltage	V _{EBO}	8.0	V
Collector Current	I _C	7.0	A
Base Current	I _B	3.0	A
Total Dissipation at	P _{tot}	60	W
Max. Operating Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I _{CEO}	V _{CB} =100V, I _E =0	—	—	0.1	mA
Emitter Cut-off Current	I _{EBO}	V _{EB} =8.0V, I _C =0	—	—	0.1	mA
Collector-Emitter Sustaining Voltage	V _{CEO}	I _C =1.0mA, I _B =0	110	—	—	V
DC Current Gain	h _{FE(1)}	V _{CE} =4V, I _C =3.0A	70	—	—	
	h _{FE(2)}	V _{CE} =5V, I _C =1.0A	100	—	200	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =3.0A, I _B =300mA	—	—	0.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =3.0A, I _B =300mA	—	—	1.2	V
Current Gain Bandwidth Product	f _T	V _{CE} =12V, I _C =500mA	—	30	—	MHz