

Silicon NPN Power Transistors

2SC3678

DESCRIPTION

- High Voltage Switching
- With TO-3PN package

APPLICATIONS

- Switching Regulator
- General Purpose

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

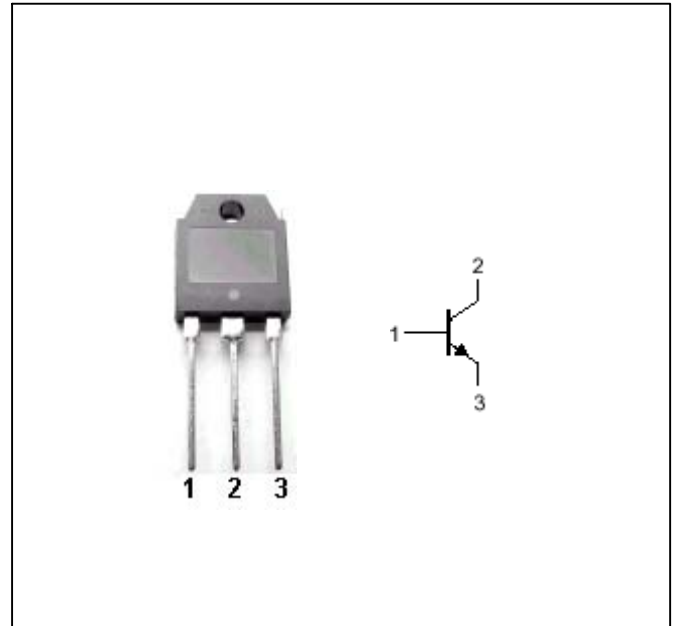


Fig.1 simplified outline (TO-3PN) and symbol

Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CB0}	Collector-base voltage	Open emitter	900	V
V _{CEO}	Collector-emitter voltage	Open base	800	V
V _{EBO}	Emitter-base voltage	Open collector	7	V
I _C	Collector current		3	A
I _{CP}	Collector current-pulse		6	A
I _B	Base current		1.5	A
P _C	Collector power dissipation	T _C =25	80	W
T _j	Junction temperature		150	
T _{stg}	Storage temperature		-55~150	

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO}	Collector-emitter breakdown voltage	I _C =10mA	800			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =1A I _B =0.2A			0.5	V
V _{BEsat}	Base-emitter saturation voltage	I _C =1A I _B =0.2A			1.2	V
I _{CBO}	Collector cut-off current	V _{CB} =800V; I _E =0			100	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =7V; I _C =0			100	μ A
h _{FE}	DC current gain	I _C =1A; V _{CE} =4V	10		30	
C _{ob}	Output capacitance	I _E =0; V _{CB} =10V; f=1MHz		50		pF
f _T	Transition frequency	I _E =0.3A; V _{CE} =12V		6		MHz

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PACKAGE OUTLINE

