

Silicon NPN Power Transistors

2SC2578

DESCRIPTION

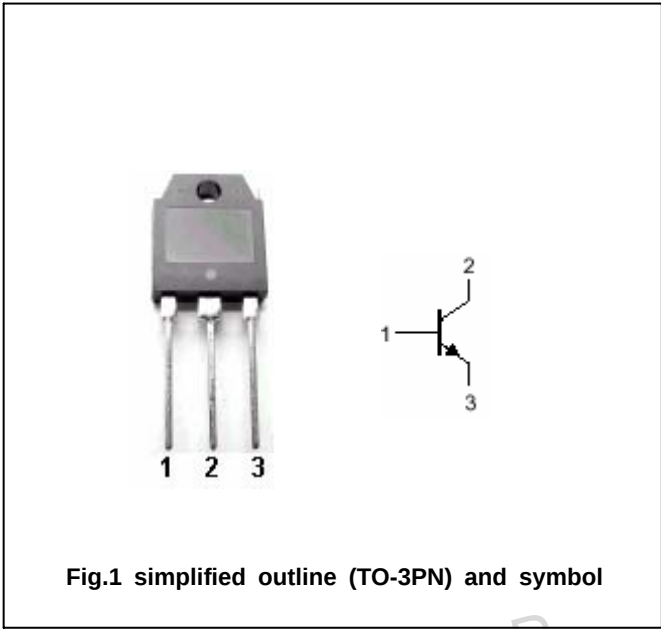
- With TO-3PN package
- High power dissipation
- High current capability

APPLICATIONS

- For audio frequency power amplifier applications

PINNING

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



Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	Open emitter	140	V
V _{CEO}	Collector-emitter voltage	Open base	100	V
V _{EBO}	Emitter-base voltage	Open collector	6	V
I _C	Collector current		7	A
P _C	Collector power dissipation	T _C =25	70	W
T _j	Junction temperature		150	
T _{stg}	Storage temperature		-55~150	

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CHARACTERISTICS

Tj=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=5mA; I_E=0$	140			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=10mA; R_{BE}=\infty$	100			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=5mA; I_C=0$	6			V
I_{CBO}	Collector cut-off current	$V_{CB}=100V; I_E=0$			0.1	mA
I_{EBO}	Emitter cut-off current	$V_{EB}=4V; I_C=0$			0.1	mA
h_{FE}	DC current gain	$I_C=3A; V_{CE}=4V$	50			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=3A; I_B=0.3A$			2	V
f_T	Transition frequency	$I_C=0.5A; V_{CE}=10V$		20		MHz

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PACKAGE OUTLINE

