

## Silicon NPN Power Transistors

2SC4385

## DESCRIPTION

- With TO-3PML package
- Complement to type 2SA1670

## APPLICATIONS

- Audio and general purpose

## PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

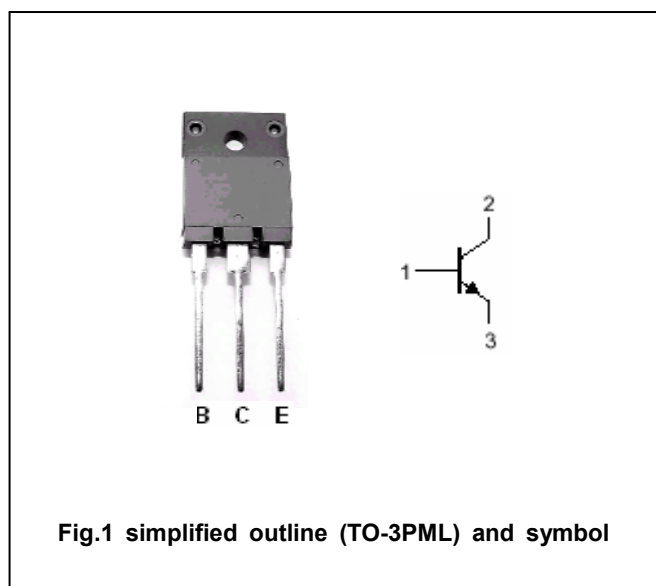


Fig.1 simplified outline (TO-3PML) and symbol

Absolute maximum ratings( $T_a=25^\circ\text{C}$ )

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage	Open emitter	120	V
$V_{CEO}$	Collector-emitter voltage	Open base	80	V
$V_{EBO}$	Emitter-base voltage	Open collector	6	V
$I_C$	Collector current		6	A
$I_B$	Base current		3	A
$P_C$	Collector power dissipation	$T_C=25^\circ\text{C}$	60	W
$T_j$	Junction temperature		150	$^\circ\text{C}$
$T_{stg}$	Storage temperature		-55~150	$^\circ\text{C}$

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## CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=50mA; I_B=0$	80			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=1mA; I_C=0$	6			V
$V_{CEsat}$	Collector-emitter saturation voltage	$I_C=2A; I_B=0.2A$			1.5	V
$I_{CBO}$	Collector cut-off current	$V_{CB}=120V; I_E=0$			10	$\mu A$
$I_{EBO}$	Emitter cut-off current	$V_{EB}=6V; I_C=0$			10	$\mu A$
$h_{FE}$	DC current gain	$I_C=2A; V_{CE}=4V$	50		180	
$f_T$	Transition frequency	$I_E=-0.5A; V_{CE}=12V$		20		MHz

◆  $h_{FE}$  classifications

O	P	Y
50-100	70-140	90-180

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## PACKAGE OUTLINE

