

Silicon NPN Power Transistors

2SC5250

DESCRIPTION

www.datasheet4u.com

- With TO-3PFM package
- High breakdown voltage
- High speed switching
- Built-in damper diode

APPLICATIONS

- Character display horizontal deflection output applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

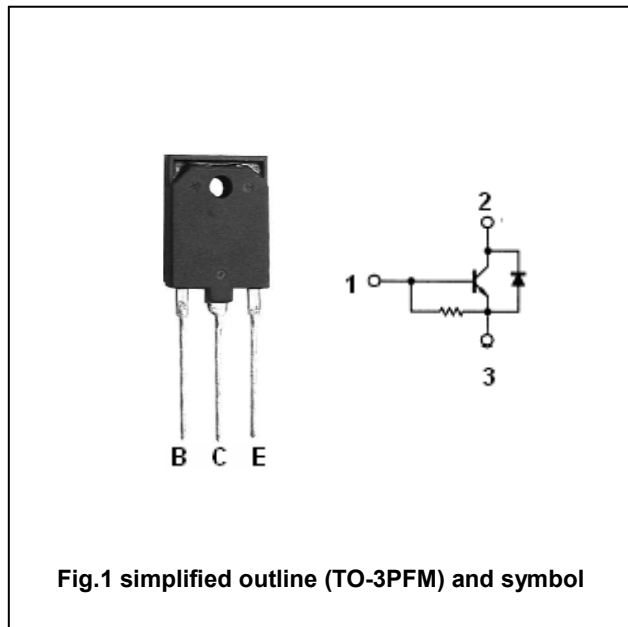


Fig.1 simplified outline (TO-3PFM) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CEO}	Collector-emitter voltage	Open base	1500	V
V _{EBO}	Emitter-base voltage	Open collector	6	V
I _C	Collector current		8	A
I _{CP}	Collector current-peak		16	A
I _D	Diode current		8	A
P _C	Collector power dissipation	T _C =25□	50	W
T _j	Junction temperature		150	□
T _{stg}	Storage temperature		-55~150	□

Silicon NPN Power Transistors

2SC5250

CHARACTERISTICS

www.datasheet4u.com

 $T_j=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_C=400\text{mA}; I_B=0$	6			V
I_{CES}	Collector cut-off current	$V_{CE}=1500\text{V}; R_{BE}=0$			500	μA
h_{FE-1}	DC current gain	$I_C=1\text{A}; V_{CE}=5\text{V}$	6		25	
h_{FE-2}	DC current gain	$I_C=5\text{A}; V_{CE}=5\text{V}$	4		7	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=5\text{A}; I_B=1.25\text{A}$			5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=5\text{A}; I_B=1.25\text{A}$			1.5	V
V_{ECF}	Forward voltage of damper diode	$I_F=8\text{A}$			2	V
t_f	Fall time	$I_{CP}=5\text{A}; I_{B1}=1\text{A};$ $f_H=31.5\text{kHz}$		0.2	0.4	μs

Silicon NPN Power Transistors

2SC5250

PACKAGE OUTLINE

www.datasheet4u.com

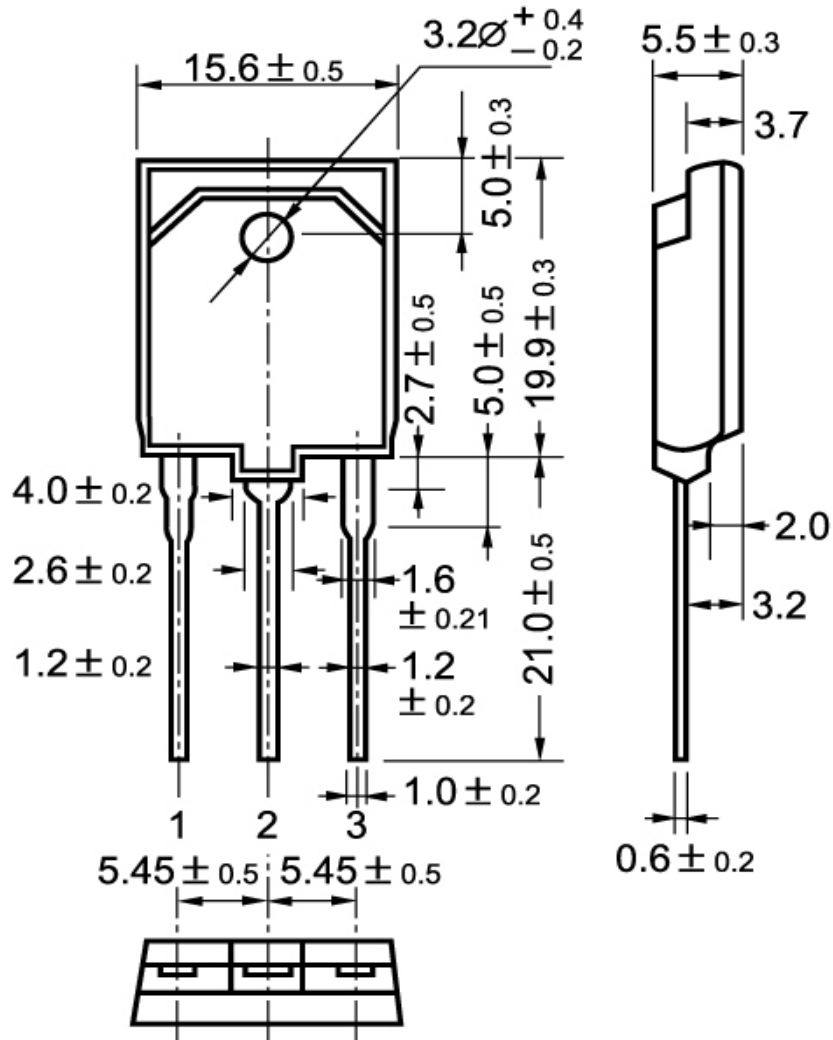


Fig.2 outline dimensions

Silicon NPN Power Transistors

2SC5250

www.datasheet4u.com

