
2SC5250

Silicon NPN Triple Diffused Planar

HITACHI

Preliminary

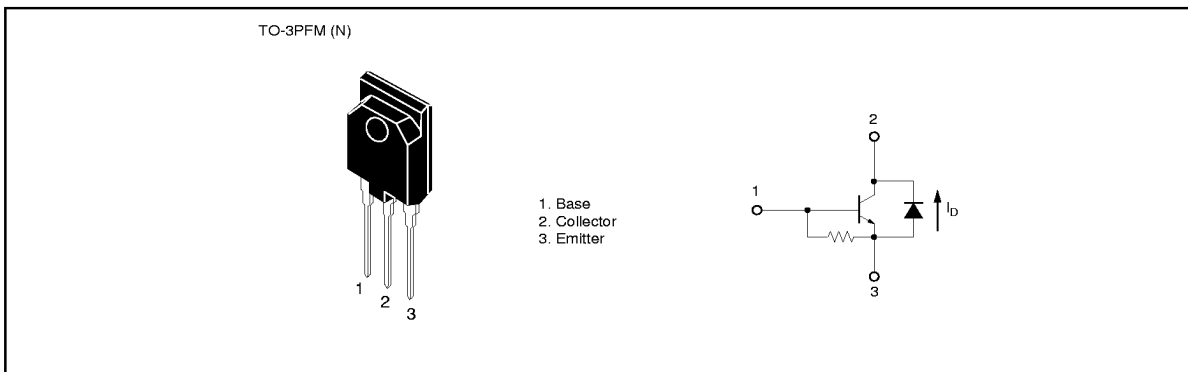
Application

Character display horizontal deflection output

Features

- High breakdown voltage
 $V_{CBO} = 1500 \text{ V}$
- High speed switching
 $t_f = 0.2 \mu\text{sec (typ)}$
- Built-in damper diode type
- Isolated package
TO-3P•FM (N)

Outline



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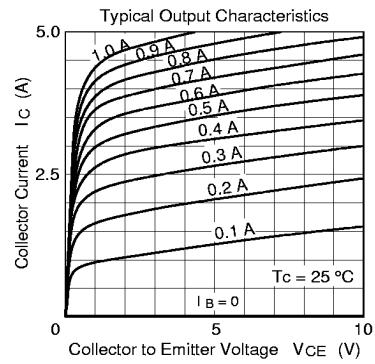
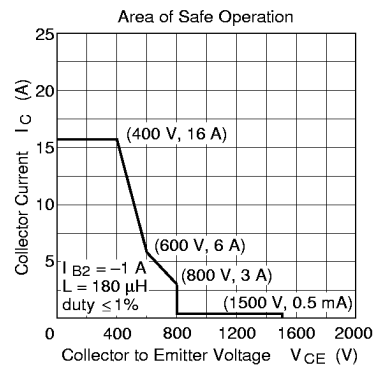
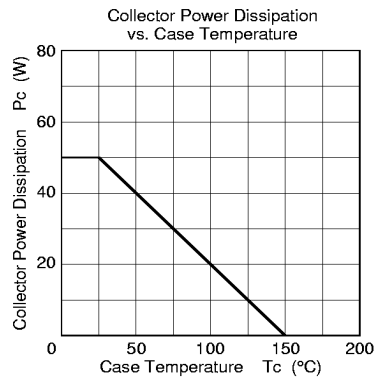
Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to emitter voltage	V_{CES}	1500	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I_C	8	A
Collector peak current	$I_{C(peak)}$	16	A
Collector power dissipation	P_C^{*1}	50	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
Diode current	I_D	8	A

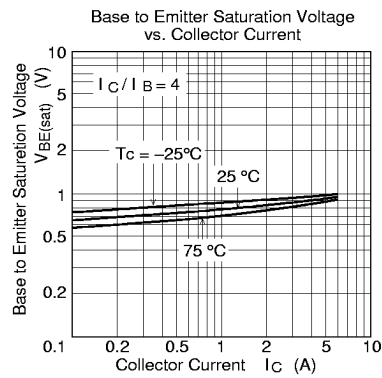
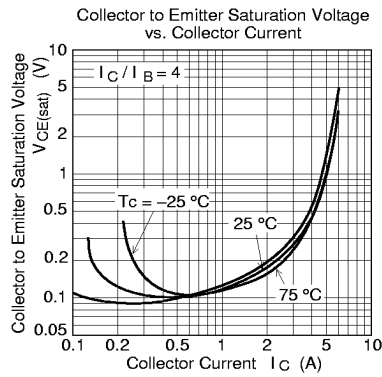
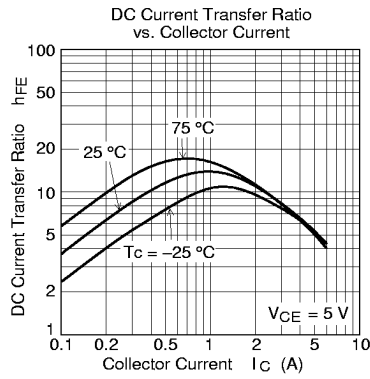
Note: 1. Value at $T_C = 25^\circ\text{C}$

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	—	—	V	$I_E = 400\text{ mA}, I_C = 0$
Collector cutoff current	I_{CES}	—	—	500	μA	$V_{CE} = 1500\text{ V}, R_{BE} = 0$
DC current transfer ratio	h_{FE1}	6	—	25		$V_{CE} = 5\text{ V}, I_C = 1\text{ A}$
DC current transfer ratio	h_{FE2}	4	—	7		$V_{CE} = 5\text{ V}, I_C = 5\text{ A}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	5	V	$I_C = 5\text{ A}, I_B = 1.25\text{ A}$
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	1.5	V	$I_C = 5\text{ A}, I_B = 1.25\text{ A}$
Forward voltage of damper diode	V_{ECF}	—	—	2	V	$I_F = 8\text{ A}$
Fall time	t_f	—	0.2	0.4	μsec	$I_{CP} = 5\text{ A}, I_{B1} = 1\text{ A},$ $f_H = 31.5\text{ kHz}$



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