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2SC5448

Silicon NPN Triple Diffused
Character Display Horizntal Deflection Output

HITACHI

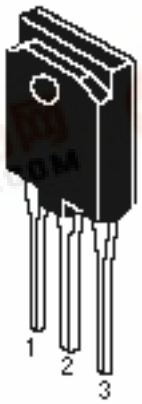
ADE-208-577 B (Z)
3rd. Edition
September 1997

Features

- High breakdown voltage
  V_{CBO} = 1500 V
- High speed switching
  t_f = 0.15 µsec (typ.) at f_H = 64 kHz
- Isolated package
  TO–3PFM

Outline

TO-3PFM



1. Base
2. Collector
3. Emitter

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Absolute Maximum Ratings (Ta = 25°C)

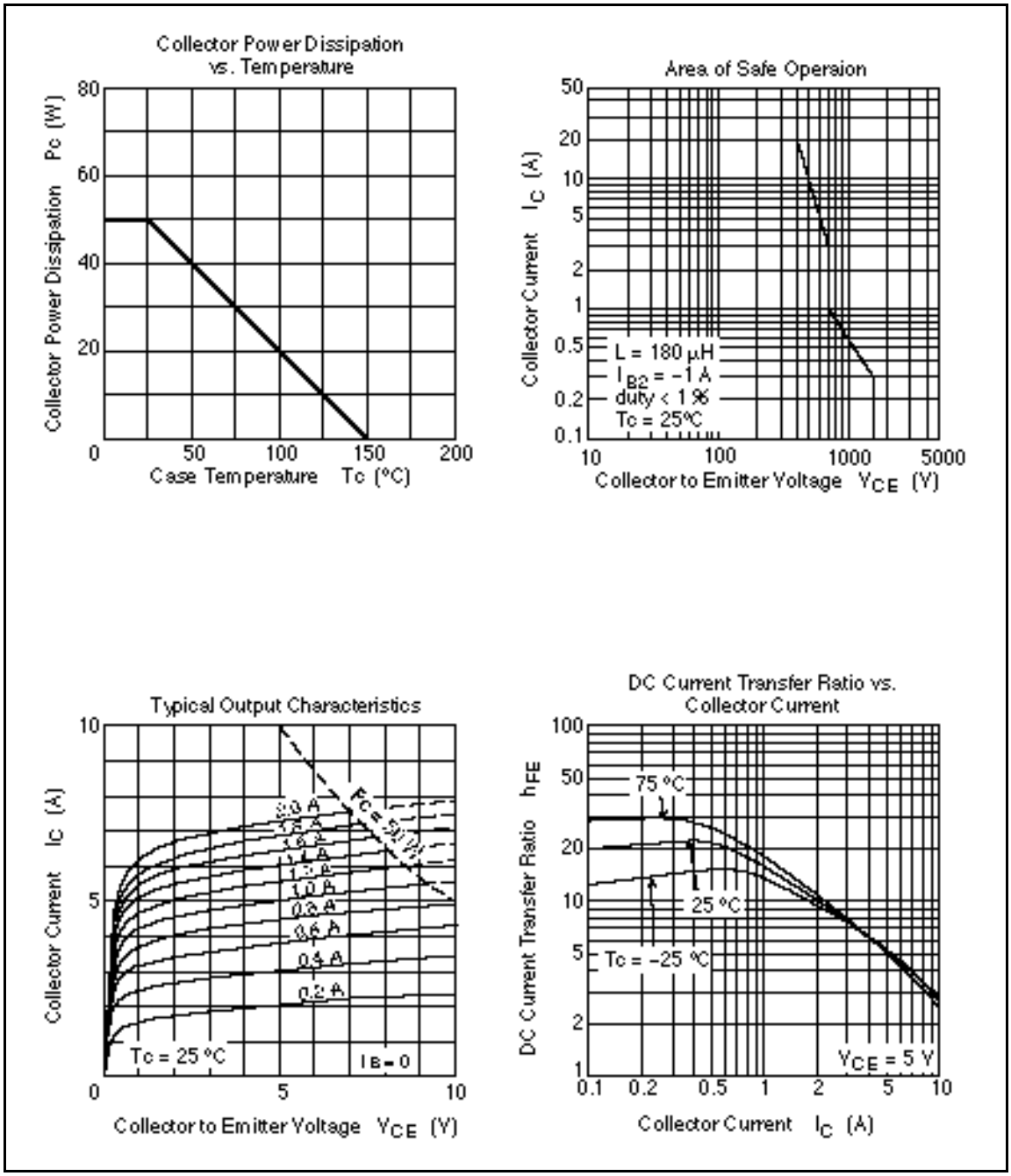
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	1500	V
Collector to emitter voltage	V_{CEO}	700	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	I_C	10	A
Collector peak current	$i_{c(peak)}$	20	A
Collector power dissipation	P_C Note1	50	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	°C

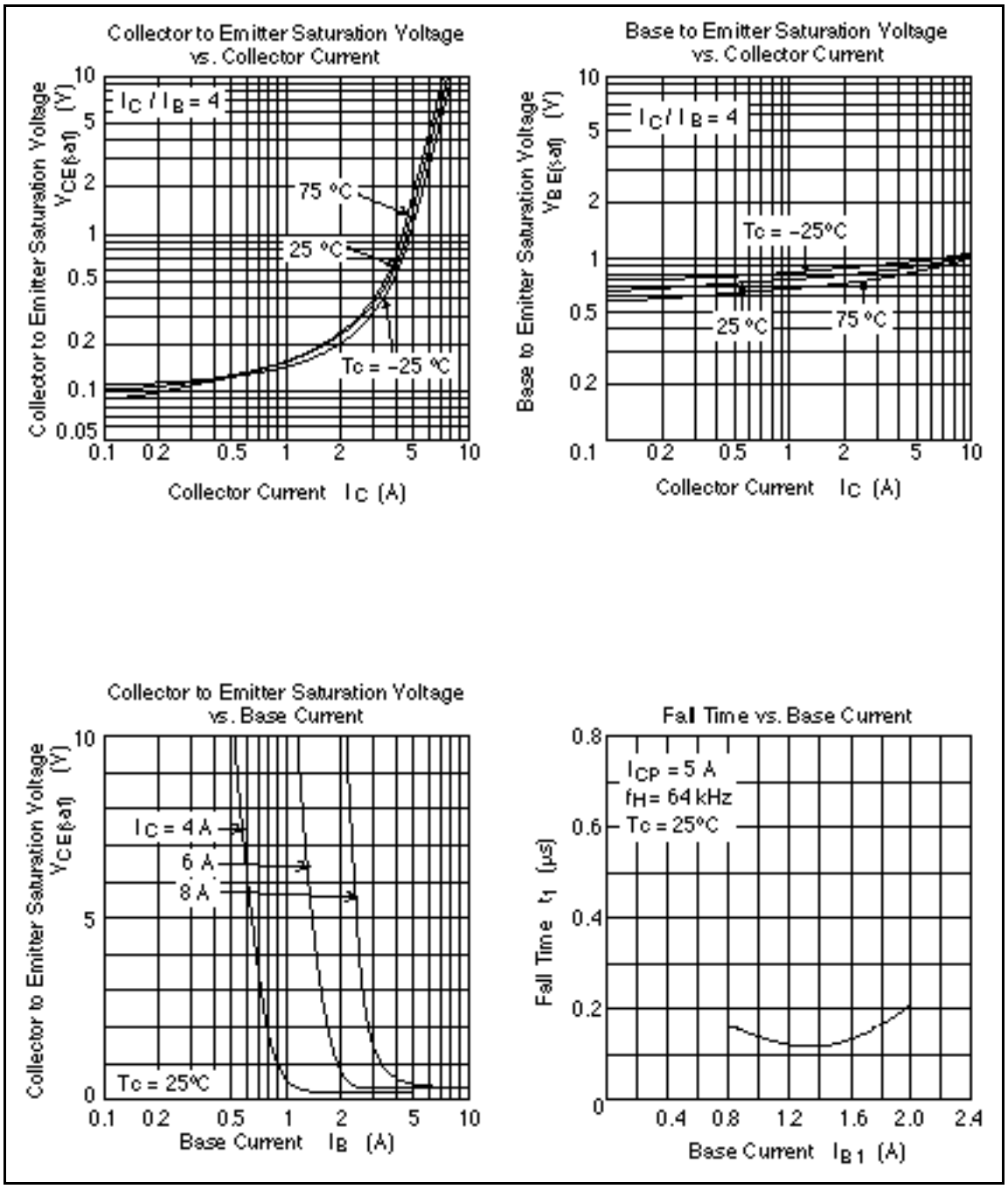
Note: 1. Value at Tc = 25°C

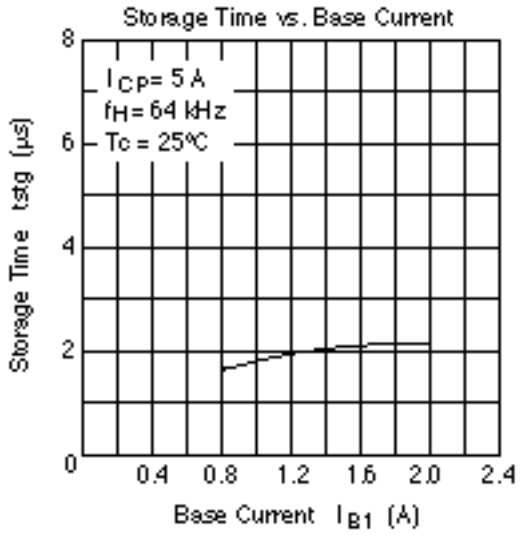
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	700	—	—	V	I_C = 10mA, R_{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6	—	—	V	I_E = 10mA, I_C = 0
Collector cutoff current	I_{CES}	—	—	500	µA	V_{CE} = 1500V, R_{BE} = 0
DC current transfer ratio	h_{FE1}	10	—	30		V_{CE} = 5 V, I_C = 1A
DC current transfer ratio	h_{FE2}	3.5	—	6.5		V_{CE} = 5 V, I_C = 6A
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	5	V	I_C = 6A, I_B = 1.6A
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	1.5	V	I_C = 6A, I_B = 1.6A
Fall time	t_f	—	0.2	0.4	µs	I_{CP} = 5A, I_{B1} = 1.6A f_H = 31.5kHz
Fall time	t_f	—	0.15	—	µs	I_{CP} = 5A, I_{B1} = 1.3A f_H = 64kHz

Main Characteristics




Collector to Emitter Saturation Voltage vs. Collector Current
Collector to Emitter Saturation Voltage $V_{CE(sat)}$ (V)
$I_C / I_B = 4$
75 °C
25 °C
Tc = −25 °C
Collector Current I_C (A)
Base to Emitter Saturation Voltage vs. Collector Current
Base to Emitter Saturation Voltage $V_{BE(sat)}$ (V)
$I_C / I_B = 4$
Tc = −25°C
25 °C
75 °C
Collector Current I_C (A)
Collector to Emitter Saturation Voltage vs. Base Current
Collector to Emitter Saturation Voltage $V_{CE(sat)}$ (V)
I_C = 4 A
6 A
8 A
Tc = 25°C
Base Current I_B (A)
Fall Time vs. Base Current
I_{CP} = 5 A
f_H = 64 kHz
Tc = 25°C
Fall Time t_f (µs)
Base Current I_{B1} (A)


Storage Time vs. Base Current
I_{CP}= 5 A
f_H= 64 kHz
Tc = 25°C
Storage Time tstg (µs)
0
2
4
6
8
0.4
0.8
1.2
1.6
2.0
2.4
Base Current I_{B1} (A)

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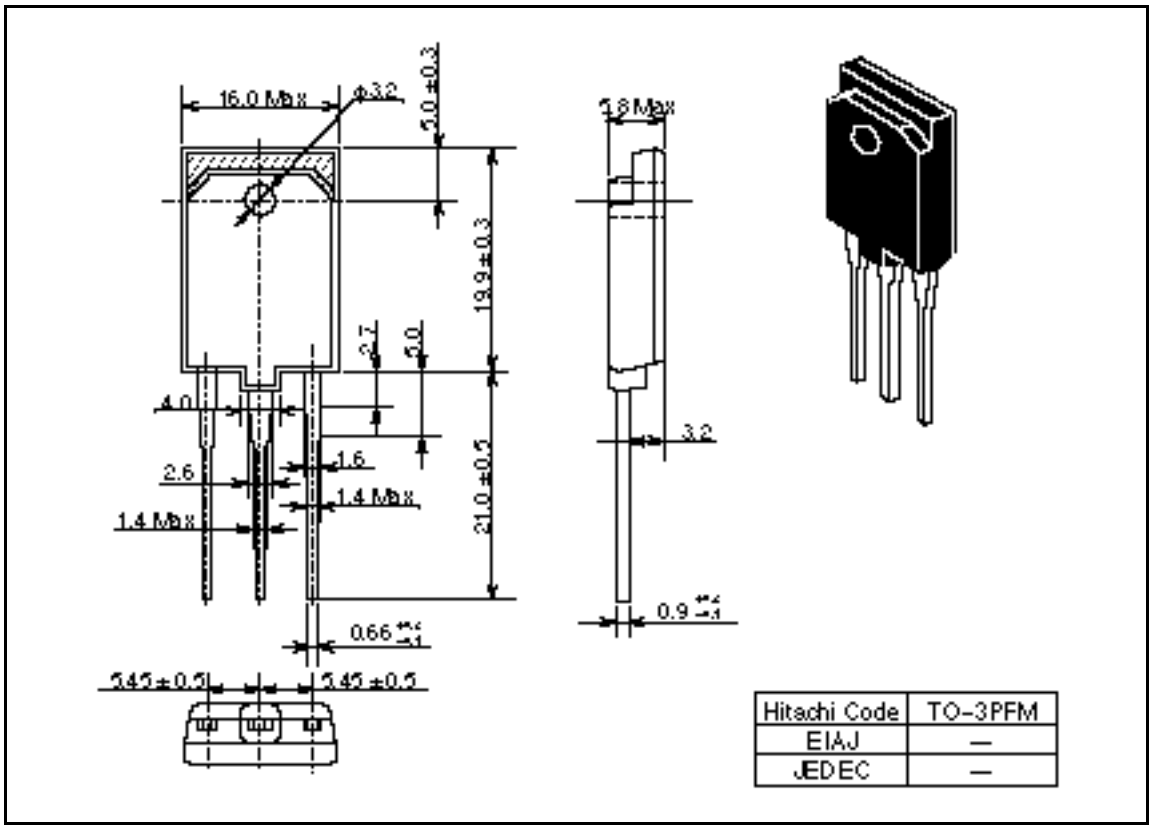
Package Dimensions

Unit: mm



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