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# 2SC2618

Silicon NPN Epitaxial

# HITACHI

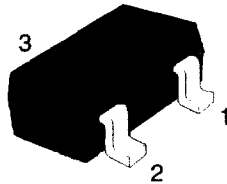
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## Application

- Low frequency amplifier
- Complementary pair with 2SA1121

## Outline

MPAK



1. Emitter
2. Base
3. Collector

## 2SC2618

### Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	35	V
Collector to emitter voltage	$V_{CEO}$	35	V
Emitter to base voltage	$V_{EBO}$	4	V
Collector current	$I_C$	500	mA
Collector power dissipation	$P_C$	150	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

### Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	35	—	—	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	35	—	—	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	4	—	—	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	$I_{CBO}$	—	—	0.5	$\mu A$	$V_{CB} = 20 \text{ V}, I_C = 0$
DC current transfer ratio	$h_{FE1}^{*1}$	60	—	320		$V_{CE} = 3 \text{ V}, I_C = 10 \text{ mA}$ (Pulse test)
	$h_{FE2}$	10	—	—		$V_{CE} = 3 \text{ V}, I_C = 500 \text{ mA}$ (Pulse test)
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	0.2	0.6	V	$I_C = 150 \text{ mA}, I_B = 15 \text{ mA}$ (Pulse test)
Base to emitter voltage	$V_{BE}$	—	0.64	—	V	$V_{CE} = 3 \text{ V}, I_C = 10 \text{ mA}$ (Pulse test)

Note: 1. The 2SC2618 is grouped by  $h_{FE1}$  as follows.

Grade	B	C	D
Mark	RB	RC	RD
$h_{FE1}$	60 to 120	100 to 200	160 to 320

See characteristic curves of 2SC1213.

