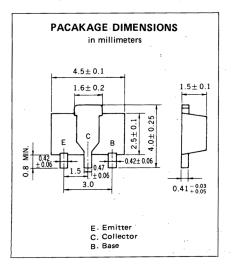
## RENESAS

# SILICON TRANSISTOR 2SC3554

### NPN SILICON EPITAXIAL TRANSISTOR POWER MINI MOLD

#### DESCRIPTION

2SC3554 is designed for high Voltage Switching application, especially in Hybrid Integrated Circuits.



#### FEATURES

• High Voltage : V<sub>CEO</sub> = 300 V

#### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub> = 25 $^{\circ}$ C)

Collector to Base Voltage	V <sub>CBO</sub>	300	V
Collector to Emitter Voltage	V <sub>CEO</sub>	. 300	· V
Emitter to Base Voltage	V <sub>EBO</sub>	5	v
Collector Current (DC)		200	mA
Total Power Dissipation *	PT T	2.0	w °C
Junction Temperature	Tj T	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	U

\*When mounted on ceramic substrate of 16 cm<sup>2</sup> x 0.7 mm

#### ELECTRICAL CHARACTERISTICS (T $_{A}$ = 25 °C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cutoff Current	СВО	. •	1.1.1.1	100	nA	V <sub>CB</sub> = 200 V, I <sub>E</sub> = 0
Emitter Cutoff Current	IEBO			100	'nA	VEB = 5.0 V, IC = 0
DC Current Gain	hFE **	60	150	250		V <sub>CE</sub> = 10 V, I <sub>C</sub> = 10 mA
Collector Saturation Voltage	VCE(sat) **		0.15	1.5	V	IC = 50 mA, IB = 5.0 mA
Gain Bandwidth Product	fT		50		MHz	V <sub>CE</sub> = 30 V, I <sub>E</sub> = -10 mA
Output Capacitance	Cob		2.8	3.5	pF	V <sub>CB</sub> = 30 V, I <sub>E</sub> = 0, f = 1.0 MHz

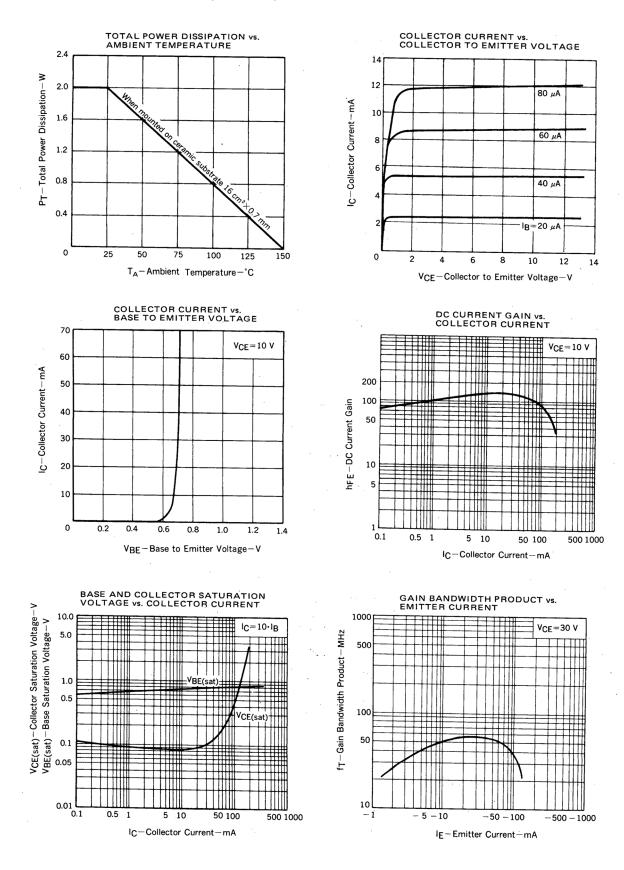
\*\*Pulsed: PW  $\leq$  350  $\mu$ s, Duty Cycle  $\leq$  2 %

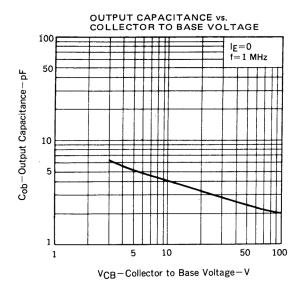
h<sub>FE</sub> Classification

MARKING	SM	SL	SK
hFE	60 to 120	100 to 200	160 to 250

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TYPICAL CHARACTERISTICS ( $T_A = 25^{\circ}C$ )





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- "Specific": Aircraft, aerospace equipment, submersible repeaters, nuclear reactor control systems, life support systems and medical equipment for life support, etc.

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