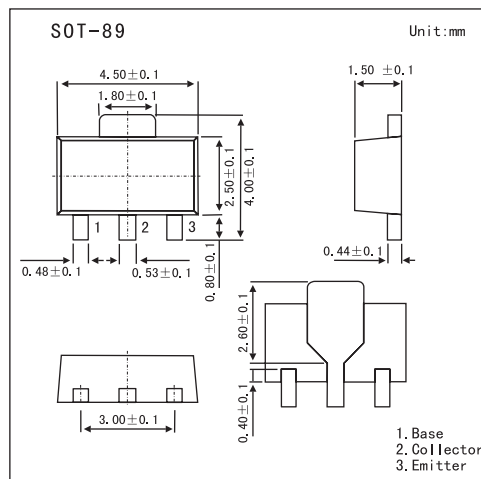


# 2SC3618

■ Features

- World standard miniature package.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CB0</sub>	25	V
Collector-emitter voltage	V <sub>CEO</sub>	25	V
Emitter-base voltage	V <sub>EBO</sub>	15	V
Collector current	I <sub>C</sub>	0.7	A
Collector current (Pulse)*	I <sub>CP</sub>	1.0	A
Total power dissipation	P <sub>T</sub>	2.0	W
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

\* PW ≤ 10ms, duty cycle ≤ 50%.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> = 25V, I <sub>E</sub> = 0			100	nA
Emitter cutoff current	I <sub>EBO</sub>	V <sub>EB</sub> = 10V, I <sub>C</sub> = 0			100	nA
DC current gain *	h <sub>FE</sub>	V <sub>CE</sub> = 2.0V, I <sub>C</sub> = 300mA	800		3200	
Collector-emitter saturation voltage *	V <sub>CE(sat)</sub>	I <sub>C</sub> = 300mA, I <sub>B</sub> = 3.0mA		0.16	0.3	V
Base-emitter saturation voltage *	V <sub>BE(sat)</sub>	I <sub>C</sub> = 300mA, I <sub>B</sub> = 3.0mA		0.75	1.2	V
Gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> = 5.0V, I <sub>E</sub> = -300mA	150	250		MHz
Output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0, f = 1.0MHz		10		pF

\*. PW ≤ 350μs, duty cycle ≤ 2%

■ hFE Classification

Marking	UM	UL	UK
hFE	800~1600	1200~2400	2000~3200