

# 2SC5370

Silicon NPN Epitaxial Planar Transistor

Application : Emergency Lighting Inverter and General Purpose

**Absolute maximum ratings** (Ta=25°C)

Symbol	2SC5370	Unit
V <sub>CB0</sub>	60	V
V <sub>CE0</sub>	40	V
V <sub>EB0</sub>	7	V
I <sub>c</sub>	12	A
I <sub>B</sub>	3	A
P <sub>c</sub>	30(T <sub>c</sub> =25°C)	W
T <sub>j</sub>	150	°C
T <sub>stg</sub>	-55to+150	°C

**Electrical Characteristics**

Symbol	Conditions	2SC5370	Unit
I <sub>CB0</sub>	V <sub>CB</sub> =60V	10max	μA
I <sub>EB0</sub>	V <sub>EB</sub> =7V	10max	μA
V <sub>(BR)CEO</sub>	I <sub>c</sub> =25mA	40min	V
h <sub>FE</sub>	V <sub>CE</sub> =2V, I <sub>c</sub> =6A	70min*	
V <sub>CE(sat)</sub>	I <sub>c</sub> =6A, I <sub>B</sub> =0.3A	0.3max	V
V <sub>BE(sat)</sub>	I <sub>c</sub> =6A, I <sub>B</sub> =0.3A	1.2max	V
f <sub>r</sub>	V <sub>CE</sub> =12V, I <sub>E</sub> =-3A	90typ	MHz
C <sub>OB</sub>	V <sub>CB</sub> =10V, f=1MHz	120typ	pF

\*h<sub>FE</sub> Rank  $\bar{0}$ (70 to 140), Y(120 to 240), G(200 to 400)

**External Dimensions FM20(TO220F)**

