

2SC4064

LOW VCE (sat)

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1567)

Application : DC Motor Driver and General Purpose

Absolute maximum ratings (Ta=25°C)

Symbol	2SC4064	Unit
VCBO	50	V
VCEO	50	V
VEBO	6	V
IC	12	A
IB	3	A
PC	35(Tc=25°C)	W
TJ	150	°C
Tstg	-55 to +150	°C

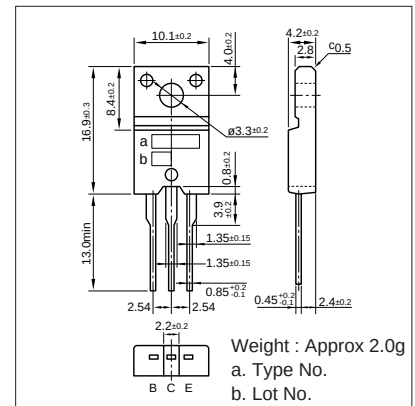
Electrical Characteristics (Ta=25°C)

Symbol	Conditions	2SC4064	Unit
ICBO	VCB=50V	100max	μA
IEBO	VEB=6V	10max	μA
V(BR)CEO	IC=25mA	50min	V
hFE	VCE=1V, IC=6A	50min	
VCE(sat)	IC=6A, IB=0.3A	0.35max	V
fr	VCE=12V, IE=-0.5A	40typ	MHz
COB	VCB=12V, f=1MHz	180typ	pF

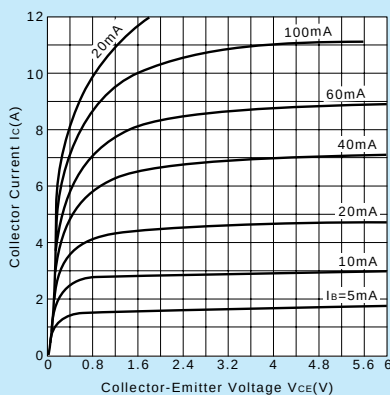
Typical Switching Characteristics (Common Emitter)

VCC (V)	RL (Ω)	IC (A)	VBB1 (V)	VBB2 (V)	IB1 (A)	IB2 (A)	ton (μs)	tstg (μs)	tf (μs)
24	4	6	10	-5	0.12	-0.12	0.6typ	1.4typ	0.4typ

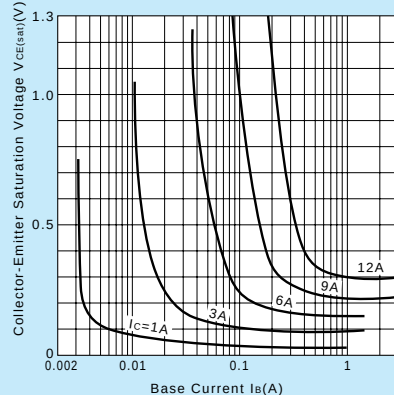
External Dimensions FM20(TO220F)



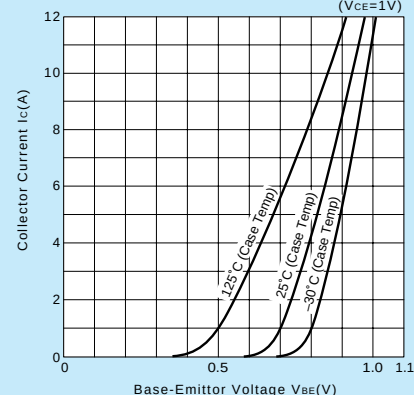
IC-VCE Characteristics (Typical)



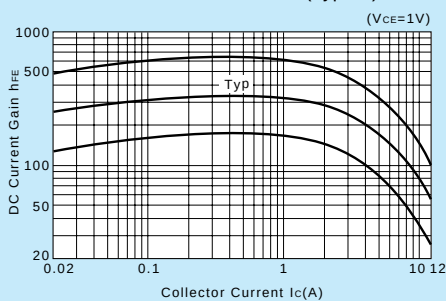
VCE(sat)-IB Characteristics (Typical)



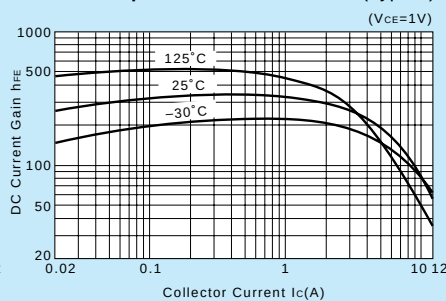
IC-VBE Temperature Characteristics (Typical)



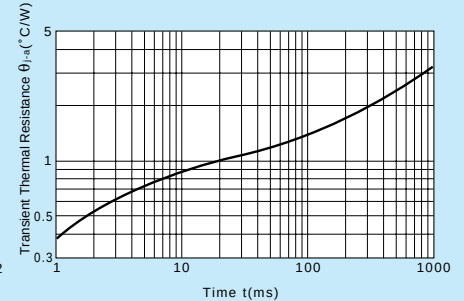
hFE-IC Characteristics (Typical)



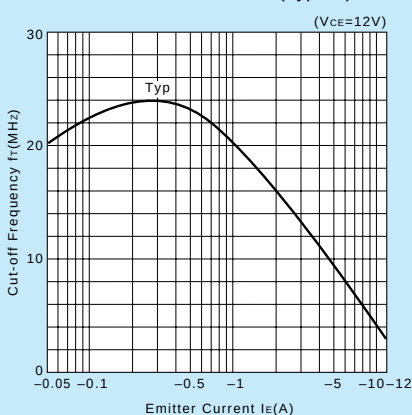
hFE-IC Temperature Characteristics (Typical)



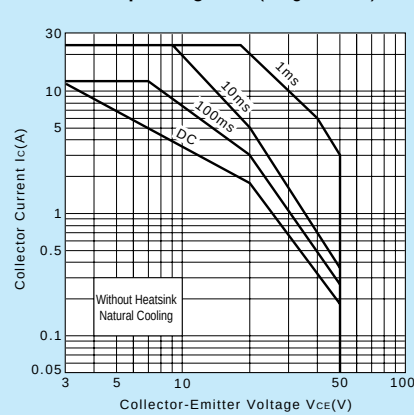
θj-a-t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



PC-Ta Derating

