

Absolute maximum ratings (Ta=25°C)

Symbol	2SC2837	Unit
VCBO	150	V
VCEO	150	V
VEBO	5	V
IC	10	A
IB	2	A
Pc	100(Tc=25°C)	W
Tj	150	°C
Tstg	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

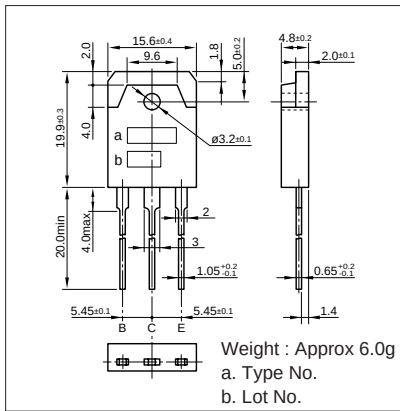
Symbol	Conditions	2SC2837	Unit
ICBO	VCB=150V	100max	μA
IEBO	VEB=5V	100max	μA
V(BR)CEO	IC=25mA	150min	V
hFE	VCE=4V, IC=3V	50min*	
VCE(sat)	IC=5A, IB=0.5A	2.0max	V
fr	VCE=12V, IE=-1A	70typ	MHz
COB	VCB=80V, f=1MHz	60typ	pF

*hFE Rank $\bar{O}$ (50 to 100), P(70 to 140), Y(90 to 180)

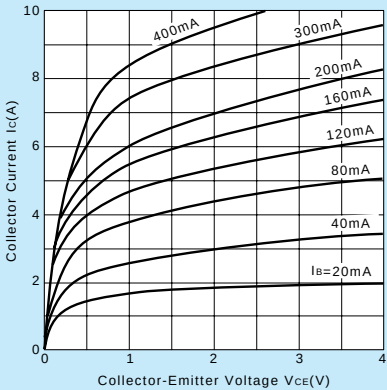
Typical Switching Characteristics (Common Emitter)

VCC (V)	RL (Ω)	IC (A)	VB2 (V)	IB1 (mA)	IB2 (mA)	ton (μs)	tstg (μs)	tf (μs)
60	12	5	-5	500	-500	0.2typ	1.4typ	0.35typ

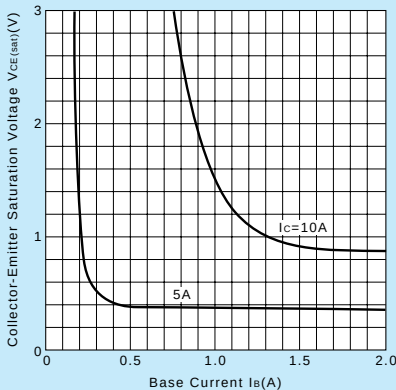
External Dimensions MT-100(TO3P)



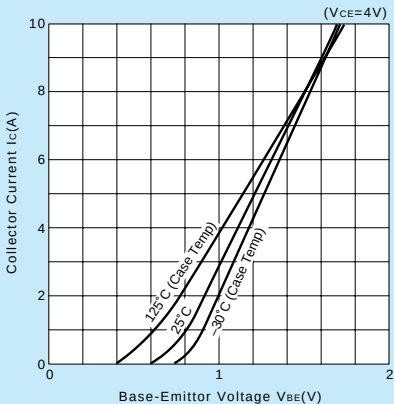
IC-VCE Characteristics (Typical)



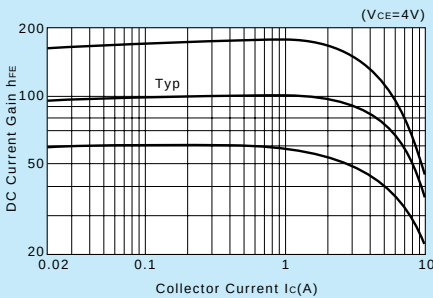
VCE(sat)-IB Characteristics (Typical)



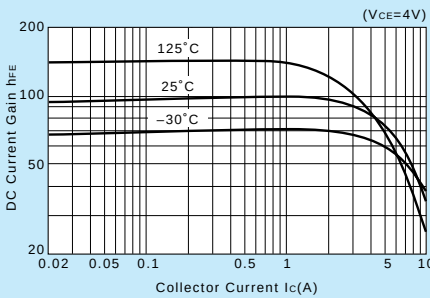
IC-VBE Temperature Characteristics (Typical)



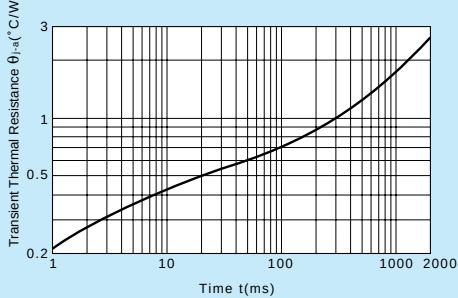
hFE-IC Characteristics (Typical)



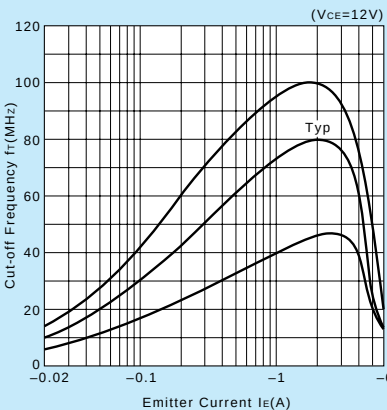
hFE-IC Temperature Characteristics (Typical)



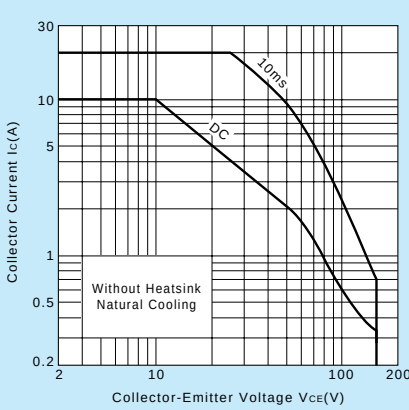
θJA-t Characteristics



fr-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

