2SC2837 **LAPT**

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1186)

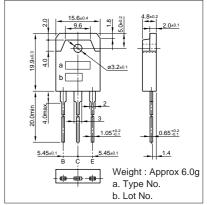
Application: Audio and General Purpose

Absolute maximum ratings (Ta=25°C)							
Symbol	2SC2837	Unit					
Vсво	150	V					
VCEO	150	V					
VEBO	5	V					
Ic	10	А					
Ів	2	А					
Pc	100(Tc=25°C)	W					
Tj	150	°C					
T .							

Electrical Ci	naracteristics	(Ta=25°C)				
Symbol	Conditions	2SC2837	Unit			
Ісво	VcB=150V	100max	μΑ			
I EBO	V _{EB} =5V 100max		μΑ			
V(BR)CEO	Ic=25mA	Ic=25mA 150min				
hfe	Vce=4V, Ic=3V	50min*				
Vce(sat)	Ic=5A, IB=0.5A	2.0max	V			
fr	Vce=12V, Ie=-1A	70typ	MHz			
Сов	VcB=80V, f=1MHz	60typ	pF			

*hfe Rank $\overline{O}(50 \text{ to } 100)$, P(70 to 140), Y(90 to 180)

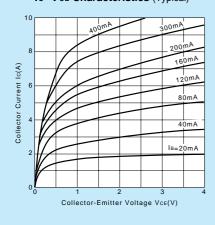
External Dimensions MT-100(TO3P)



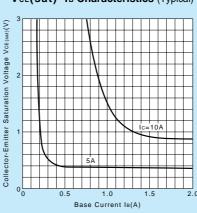
Typical Switching Characteristics (Common Emitter)

Vcc	R _L	Ic	V _{B2} (V)	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(mA)	(mA)	(µs)	(µs)	(µs)
60	12	5	-5	500	-500	0.2typ	1.4typ	0.35typ

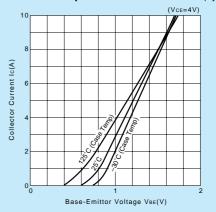




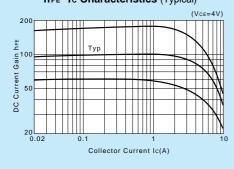
VcE(sat)-IB Characteristics (Typical)



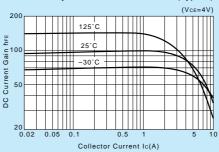
Ic-VBE Temperature Characteristics (Typical)

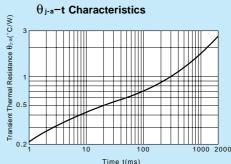


hfe-Ic Characteristics (Typical)

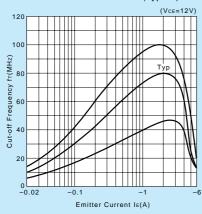


hfe-Ic Temperature Characteristics (Typical)

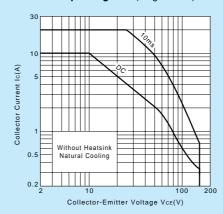




fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

