2SC3856

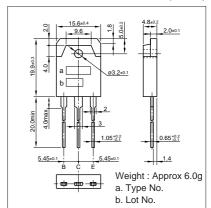
Silicon NPN Triple Diffused Planar Transistor (Complement to type 2SA1492)

Application: Audio and General Purpose

Absolute maximum ratings (Ta=25°C)							
Symbol	2SC3856	Unit					
Vсво	200	V					
VCEO	180	V					
VEBO	6	V					
Ic	15	А					
Ів	4	А					
Pc	130(Tc=25°C)	W					
Tj	150	°C					
Tstg	-55 to +150	°C					

Electrical C	haracteristics	(Ta=25°C)					
Symbol	Conditions	2SC3856	Unit				
Ісво	Vcb=200V	100max	μΑ				
Г ЕВО	VEB=6V	100max	μΑ				
V(BR)CEO	Ic=50mA	180min	V				
hfe	Vce=4V, Ic=3A	50min*					
Vce(sat)	Ic=5A, IB=0.5A	2.0max	V				
fT	Vce=12V, Ie=-0.5A	20typ	MHz				
Сов	VcB=10V, f=1MHz	300typ	pF				
*hfe Rank \overline{O}(50 to 100), P(70 to 140), Y(90 to 180)							

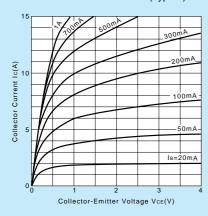
External Dimensions MT-100(TO3P)

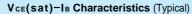


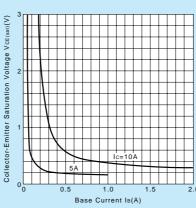
Typical Switching Characteristics (Common Emitter)

Vcc (V)	R _L (Ω)	Ic (A)	V _{BB1} (V)	VBB2 (V)	I _{B1} (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)
40	4	10	10	-5	1	-1	0.5typ	1.8typ	0.6typ

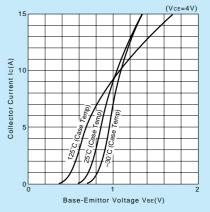
Ic-VcE Characteristics (Typical)



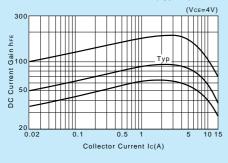




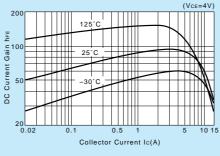
Ic-VBE Temperature Characteristics (Typical)

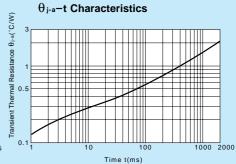


hfe-Ic Characteristics (Typical)

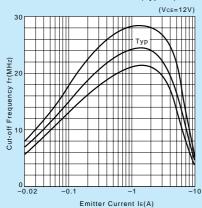


hfe-Ic Temperature Characteristics (Typical)

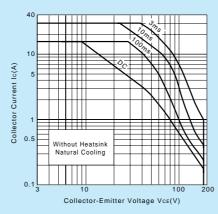




fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

