2SC4706

Silicon NPN Triple Diffused Planar Transistor (High Voltage Switching Transistor)

Application: Switching Regulator and General Purpose

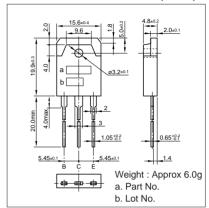
■Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit		
Vсво	900	V		
VCEO	600	V		
VEBO	7	V		
Ic	14(Pulse28)	А		
Ів	7	А		
Pc	Pc 130(Tc=25°C)			
Tj	150	°C		
Tsta	-55to+150	۰٫		

Floctrical Characteristics

■Electrical C	haracteristics	(Ta=25°C)			
Symbol	Conditions	Ratings	Unit		
Ісво	Vcb=800V	100max	μΑ		
IEBO	VEB=7V	100max	μΑ		
V(BR)CEO	Ic=10mA	600min	V		
hfe	Vce=4V, Ic=7A	10 to 25			
Vce(sat)	Ic=7A, IB=1.4A	0.5max	V		
VBE(sat)	Ic=7A, IB=1.4A	1.2max	V		
fT	Vce=12V, Ie=-1.5A	6typ	MHz		
Сов	VcB=10V, f=1MHz	160tvp	рF		

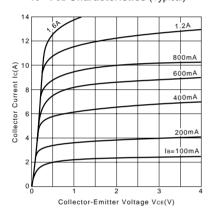
External Dimensions MT-100(TO3P)



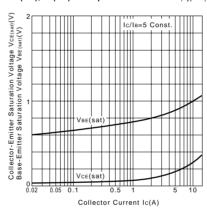
■Typical Switching Characteristics (Common Emitter)

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Vcc (V)	RL (Ω)	Ic (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	IB2 (A)	ton (µs)	tstg (µs)	tf (µs)
250	35.7	7	10	-5	1.05	-3.5	1max	5max	0.7max

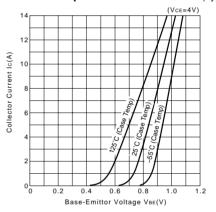
Ic-VcE Characteristics (Typical)



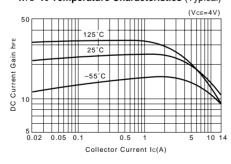
VcE(sat), VBE(sat)—Ic Temperature Characteristics (Typical)



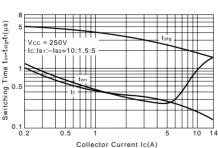
Ic-VBE Temperature Characteristics (Typical)



hfe-Ic Temperature Characteristics (Typical)

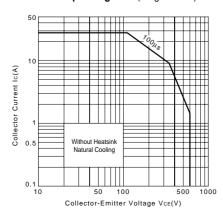


ton • tstg • tf-Ic Characteristics (Typical)

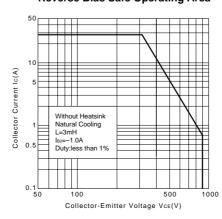


 θ_{j-a} -t Characteristics





Reverse Bias Safe Operating Area



Pc-Ta Derating

