imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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2SA1746

Silicon PNP Epitaxial Planar Transistor

Low Vce (sat)

Application : Chopper Regulator, Switch and General Purpose

Absolute maximum ratings (Ta=25°C) Unit Symbol Ratings Vсво -70 V VCEO -50 ٧ VEBO -6 ٧ Ic -12(Pulse-20) A lв _4 Α Pc 60(Tc=25°C) W Tj 150 °C Tstg -55 to +150 °C

> RL (Ω)

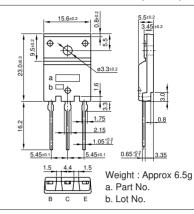
> > 4

Vcc (V)

-20

Electrical Characteristics		(Ta=25°C)	
Symbol	Conditions	Ratings	Unit
Ісво	VCB=-70V	-10max	μA
IEBO	VEB=-6V	-10max	μA
V(BR)CEO	lc=-25mA	–50min	V
hfe	VCE=-1V, IC=-5A	50min	
VCE(sat)	Ic=-5A, IB=-80mA	-0.5max	V
VBE(sat)	Ic=-5A, IB=-80mA	-1.2max	V
fτ	VCE=-12V, IE=1A	25typ	MHz
Сов	VCB=-10V, f=1MHz	400typ	pF

External Dimensions FM100(TO3PF)



Typical Switching Characteristics (Common Emitter)

IC (A)

-5

VBB1 (V)

-10

I_{B1} (mA)

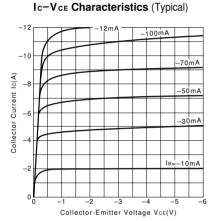
-80

VBB (V)

5

IB2 (mA)

80



VcE(sat)-IB Characteristics (Typical)

ton (µs)

0.5typ

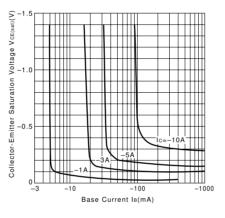
tstg (μs)

0.6typ

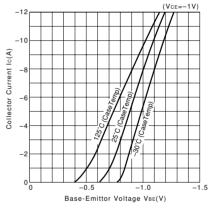
tf

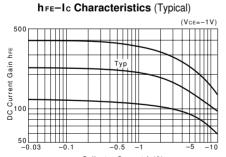
(µs)

0.3typ



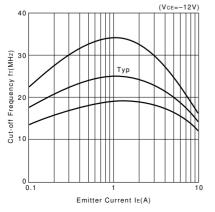
Ic-VBE Temperature Characteristics (Typical)



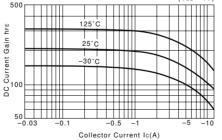




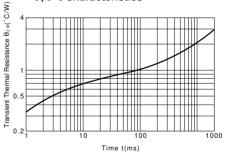
ft-le Characteristics (Typical)



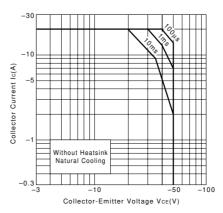
hfe-Ic Temperature Characteristics (Typical)



 θ_{j-a} -t Characteristics







Pc-Ta Derating

