

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!



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LAPT 2SC3284

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1303)

Application: Audio and General Purpose

■Absolute maximum ratings (Ta=25°C)

Symbol	Ratings	Unit		
Vсво	150	V		
VCEO	150	V		
VEBO	5	V		
Ic	14	Α		
Ів	3	Α		
Pc	125(Tc=25°C)	W		
Tj	150	°C		
Tsta	-55 to +150	°C		

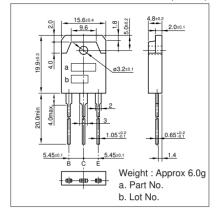
■Electrical Characteristics

Symbol	Conditions	Ratings	Unit
Ісво	VcB=150V	100max	μΑ
І ЕВО	VEB=5V	100max	μΑ
V(BR)CEO	Ic=25mA	150min	V
hfE	Vce=4V, Ic=5A	50min*	
VcE(sat)	Ic=5A, IB=0.5A	2.0max	V
fτ	Vce=12V, Ie=-2A	60typ	MHz
Сов	VcB=10V, f=1MHz	200typ	pF

(Ta=25°C)

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

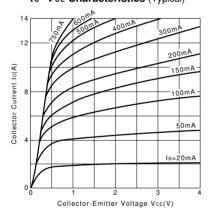
External Dimensions MT-100(TO3P)



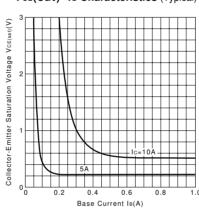
■Typical Switching Characteristics (Common Emitter)

Vcc (V)	RL (Ω)	Ic (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (A)	IB2 (A)	ton (µs)	tstg (μs)	tf (μs)
60	12	5	10	-5	0.5	-0.5	0.2typ	1.5typ	0.35typ

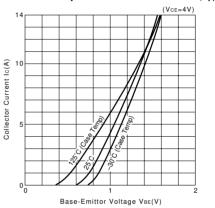
Ic-VcE Characteristics (Typical)



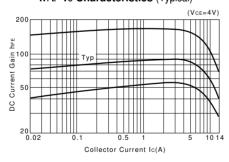
VcE(sat)-IB Characteristics (Typical)



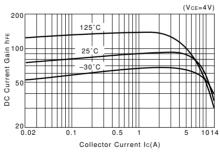
Ic-VBE Temperature Characteristics (Typical)



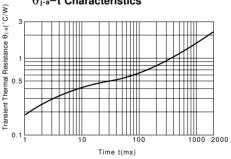
hfe-Ic Characteristics (Typical)



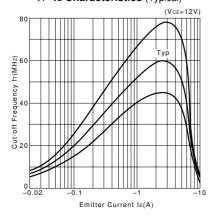
hfe-Ic Temperature Characteristics (Typical)



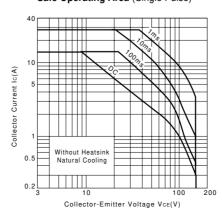
θ_{j-a}-t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

