

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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Darlington

2SB1420



Silicon PNP Epitaxial Planar Transistor

Application: Chopper Regulator, DC Motor Driver and General Purpose

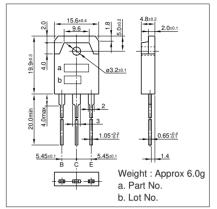
■Absolute maximum ratings (Ta=25°C)								
Symbol	Ratings	Unit						
Vсво	-120	V						
VCEO	CEO -120							
VEBO	-6	V						
Ic	-16(Pulse-26)	Α						
lв	-1	Α						
Pc	80(Tc=25°C)	W						
Tj	150	°C						

-55 to +150

Tstg

■Electrical Characteristics (Ta=25°C) Conditions Ratings Unit VcB=-120V Ісво μA VEB=-6V -10max mΑ **І**ЕВО Ic=-10mA ٧ V(BR)CEO -120min 2000min Vce=-4V, Ic=-8A hff Ic=-8A, IB=-16mA -1.5max VcF(sat) -2.5max ٧ V_{BE}(sat) Ic=-8A, IB=-16mA MHz Vce=-12V Is=1A 50tvp VcB=-10V, f=1MHz 350typ pF Сов

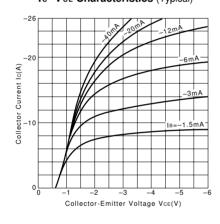
External Dimensions MT-100(TO3P)



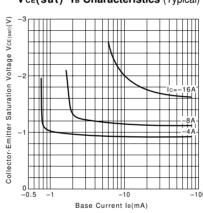
■Typical Switching Characteristics (Common Emitter)

Vcc	Rι	Ic	V _{BB1} (V)	V _{BB2}	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(µs)	(μs)	(µs)
-24	2	-12	-10	5	-24	24	1.0typ	3.0typ	1.0typ

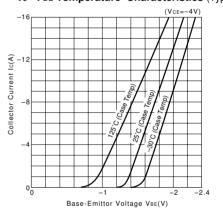
Ic-VcE Characteristics (Typical)



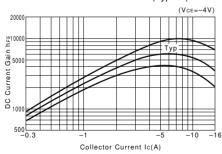
VcE(sat)-IB Characteristics (Typical)



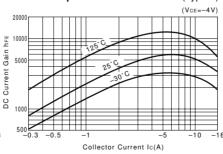
Ic-VBE Temperature Characteristics (Typical)



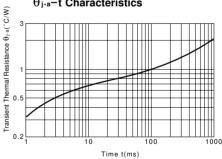
hfe-Ic Characteristics (Typical)



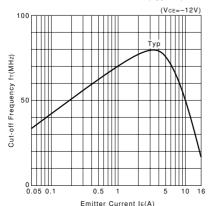
hfe-Ic Temperature Characteristics (Typical)



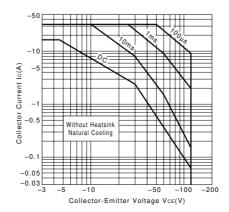
θ_{j-a}−t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

