

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

2SB1559



Silicon PNP Epitaxial Planar Transistor (Complement to type 2SD2389)

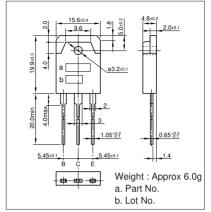
Application: Audio, Series Regulator and General Purpose

■Absolute maximum ratings (Ta=25°C						
Symbol	Ratings	Unit				
Vсво	-160	V				
VCEO	-150	V				
VEBO	-5	V				
Ic	-8	Α				
lв	-1	Α				
Pc	80(Tc=25°C)	W				
Tj	150	°C				
Teta	_55 to . 150	°C				

■Electrical C	haracteristics	(Ta=25°C)		
Symbol	Conditions	Ratings	Unit	
Ісво	Vcb=-160V	-100max	μΑ	
I EBO	V _{EB} =-5V	-100max	μΑ	
V(BR)CEO	Ic=-30mA	-150min	V	
hfE	VCE=-4V, IC=-6A	5000min*		
VcE(sat)	Ic=-6A, IB=-6mA	-2.5max	V	
V _{BE} (sat)	Ic=-6A, IB=-6mA	-3.0max	V	
fτ	VCE=-12V, IE=1A	65typ	MHz	
Сов	VcB=-10V, f=1MHz	160typ	pF	

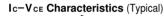
*hFE Rank \(\overline{O}(5000 to 12000), P(6500 to 20000), Y(15000 to 30000)

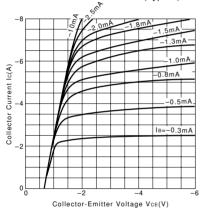
External Dimensions MT-100(TO3P)



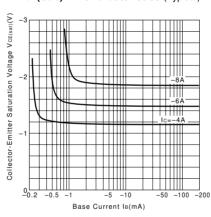
■Typical Switching Characteristics (Common Emitter)

Vcc	RL	Ic	V _{BB1} (V)	VBB2	I _{B1}	I _{B2}	ton	tstg	tf
(V)	(Ω)	(A)		(V)	(mA)	(mA)	(μs)	(μs)	(μs)
-60	10	-6	-10	5	-6	6	0.7typ	3.6typ	0.9typ

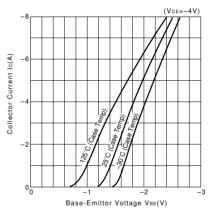




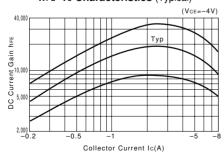
VcE(sat)-IB Characteristics (Typical)



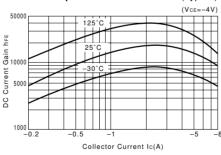
Ic-VBE Temperature Characteristics (Typical)



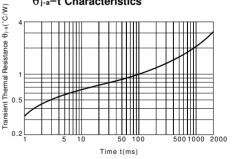
hfe-Ic Characteristics (Typical)



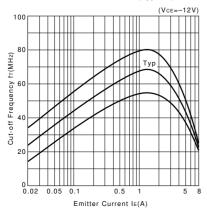
hfe-Ic Temperature Characteristics (Typical)



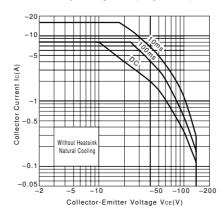
 θ_{j-a} -t Characteristics



fT-IE Characteristics (Typical)



Safe Operating Area (Single Pulse)



Pc-Ta Derating

