## **Darlington**

# 2SB1559



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

#### Application: Audio, Series Regulator and General Purpose

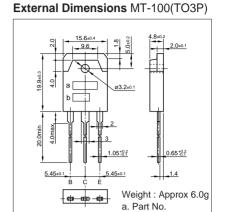
■Absolute maximum ratings (Ta=25°C						
Symbol	nbol Ratings					
Vсво	-160	V				
VCEO	-150	V				
VEBO	-5	V				
Ic	-8	А				
Ів	-1	А				
Pc	80(Tc=25°C)	W				
Tj	150	°C				
Tstg	-55 to +150	°C				

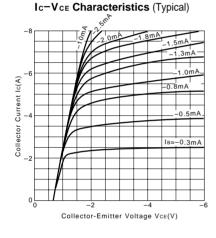
■Electrical C	haracteristics	(Ta=25°C)		
Symbol	Conditions	Ratings	Unit	
Ісво	VcB=-160V	-100max	μΑ	
IEBO	VEB=-5V	-100max	μΑ	
V(BR)CEO	Ic=-30mA	-150min	V	
hfe	Vce=-4V, Ic=-6A	5000min*		
Vce(sat)	Ic=-6A, IB=-6mA	-2.5max	V	
VBE(sat)	Ic=-6A, IB=-6mA	-3.0max	V	
fr	Vce=-12V, Ie=1A	65typ	MHz	
Сов	VcB=-10V, f=1MHz	160typ	рF	

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

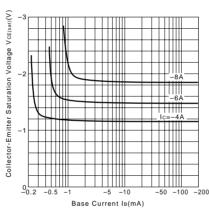
### ■Typical Switching Characteristics (Common Emitter)

Vcc (V)	R <sub>L</sub> (Ω)	Ic (A)	V <sub>BB1</sub> (V)	V <sub>BB2</sub> (V)	I <sub>B1</sub> (mA)	I <sub>B2</sub> (mA)	ton (µs)	tstg (µs)	tf (µs)
-60	10	-6	-10	5	-6	6	0.7typ	3.6typ	0.9typ



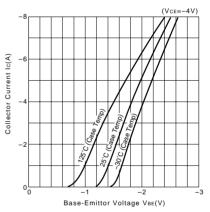


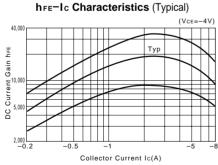
VcE(sat)-IB Characteristics (Typical)

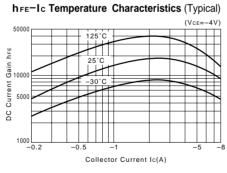


Ic-VBE Temperature Characteristics (Typical)

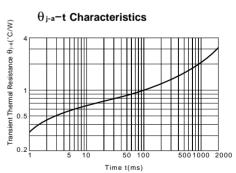
b. Lot No.

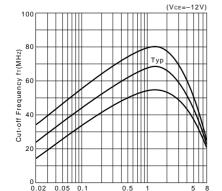






Safe Operating Area (Single Pulse)





Emitter Current IE(A)

fT-IE Characteristics (Typical)

