

isc Silicon NPN Darlington Power Transistor

2SD1597

DESCRIPTION

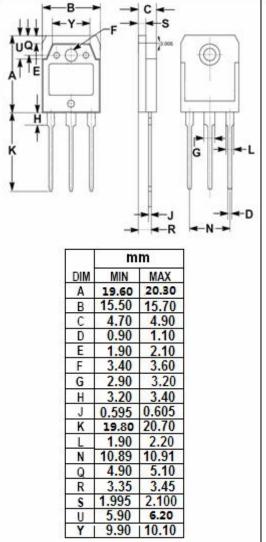
- Collector Current -I_C= 30A
- High DC Current Gain-
- : h_{FE}= 1000(Min)@ I_C= 15A
- Low Collector Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for audio frequency power amplifier and low speed high current switching industrial use.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	120	v				
V _{CEO}	Collector-Emitter Voltage	120	V				
V _{EBO}	Emitter-Base Voltage	7	V				
lc	Collector Current-Continuous	30	A				
IB	Base Current-Continuous	1.5	A				
Pc	Collector Power Dissipation @ T _c =25°C	80	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-55~150	°C				

111212123TO-3PN Package



isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA ;I _B =0	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA ;I _C =0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 30A; I _B = 0.1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 30A; I _B = 0.1A			2.5	V
ICEO	Collector Cutoff Current	V _{CE} = 60V; I _B = 0			1.0	mA
І _{сво}	Collector Cutoff Current	V _{CB} = 120V;I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			5	mA
h _{FE}	DC Current Gain	I _C = 15A ; V _{CE} = 2V	1000			

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