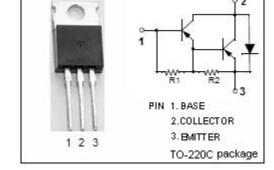


isc Silicon PNP Darlington Power Transistor

2SA1259

DESCRIPTION

- · High DC Current Gain-
- : $h_{FE} = 2000(Min)@I_{C} = -2.5A$
- · Low Collector-Emitter Saturation Voltage
 - : $V_{CE(sat)} = -1.5V(Max)@I_{C} = -2.5A$
- Complement to Type 2SC3145
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

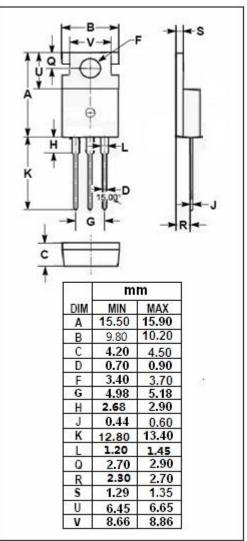


APPLICATIONS

• Designed for general purpose amplifier high f_{T} and high speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	-70	V	
V _{CEO}	Collector-Emitter Voltage	-60	V	
V _{EBO}	Emitter-Base Voltage	-5		
l _C	Collector Current-Continuous	-5	А	
Ісм	Collector Current-Peak	-8	А	
Pc	Collector Power Dissipation T_C =25 $^{\circ}$ C	30	W	
	Collector Power Dissipation T _a =125℃	1.75	VV	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	Ic= -5mA, I _E = 0	-70			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA,	-60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= -2.5A ,I _B = -5mA		-1.0	-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2.5A ,I _B = -5mA			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V, I _E = 0			-0.1	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3	mA
h _{FE}	DC Current Gain	I _C = -2.5A ; V _{CE} = -2V	2000	5000		

NOTICE:

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