

isc Silicon PNP Power Transistor

2SA877

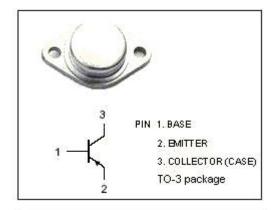
DESCRIPTION

- · High Power Dissipation-
- : P_C= 100W(Max.)@T_C=25℃
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -80V(Min.)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



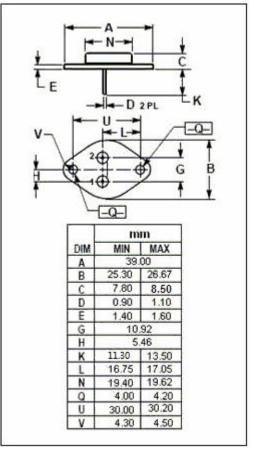
APPLICATIONS

 Designed for power amplifier and general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage		V	
Ic	Collector Current-Continuous	-10	А	
lв	Base Current-Continuous	-4	А	
Pc	Collector Power Dissipation @Tc=25°C	100	W	
T _j	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-65~150	$^{\circ}$	





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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA ;I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-0.1	mA
h _{FE}	DC Current Gain	Ic= -3A; V _{CE} = -4V	30			
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		255		pF
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -12V		15		MHz



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