

isc Silicon PNP Power Transistor

2SA808

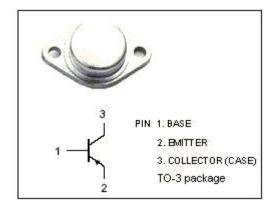
DESCRIPTION

- · High Power Dissipation-
 - : P_C= 50W(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



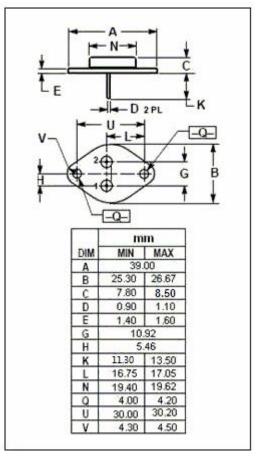
APPLICATIONS

• Designed for general purpose applications.



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-6		
Ic	Collector Current-Continuous	-6	А	
lв	Base Current-Continuous	-3	А	
Pc	Collector Power Dissipation @Tc=25℃	50	W	
T _j	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-65~150	°C	



1.8

0.3

μs

 μ S



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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

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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 = -3A; I _B = -0.3A			-1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-1.0	mA			
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-1.0	mA			
h _{FE}	DC Current Gain	I _C = -3A; V _{CE} = -4V	20						
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -12V		10		MHz			
Switching times									
t _r	Rise Time			1.2		μS			
		1							

Notice:

tstg

tf

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 I_C = -3A , R_L = 3 Ω , V_{CC} = -10V

 I_{B1} = -0.3A; I_{B2} = 50mA

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Storage Time

Fall Time