

isc Silicon PNP Darlington Power Transistor

2SB1492

DESCRIPTION

- · High DC Current Gain-
- : h_{FE} = 5000(Min)@ I_{C} = -5A
- · Low-Collector Saturation Voltage-
- : V_{CE(sat)}= -2.5V(Max.)@I_C= -5A
- Complement to Type 2SD2254
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

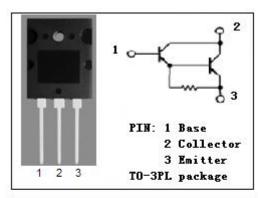
APPLICATIONS

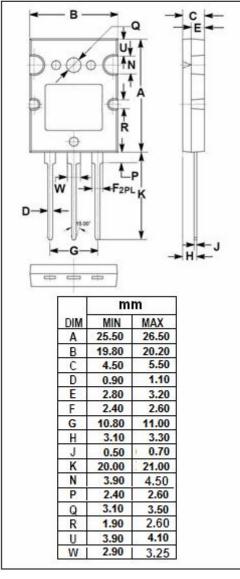


· Designed for power amplifier applications. · Optimum for 60W HiFi output applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-130	V	
V _{CEO}	Collector-Emitter Voltage	-110	V	
V _{EBO}	Emitter-Base Voltage	V		
lc	Collector Current-Continuous	Α		
Ісм	Collector Current-Peak	Α		
P _C	Collector Power Dissipation @ T _C =25°C	70	w	
	Collector Power Dissipation @ T_a =25 $^{\circ}$ C	3.5		
TJ	Junction Temperature	150 °C		
T _{stg}	Storage Temperature Range -55~150		${\mathbb C}$	







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ELECTRICAL CHARACTERISTICS

T_{C} =25°C unless otherwise specified

10-20 C uni	to the wise specified	T	I				
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-110			V	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -5mA			-2.5	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -5mA			-3.0	V	
Ісво	Collector Cutoff Current	V _{CB} = -130V; I _E = 0			-100	μА	
Iceo	Collector Cutoff Current	V _{CE} = -110V; I _B = 0			-100	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μА	
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	2000				
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -5V	5000		30000		
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V		20		MHz	
Switching Times							
t _{on}	Turn-on Time			0.9		μ S	
t _{stg}	Storage Time	I_{C} = -5A; I_{B1} = - I_{B2} = -5mA, V_{CC} = -50V,		2.5		μ S	
t _f	Fall Time			1.7		μ \$	

♦ h_{FE-2} Classifications

Q	Р		
5000-15000	8000-30000		



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