

ISC Silicon PNP Power Transistor

DESCRIPTION

- · Excellent Safe Operating Area
- DC Current Gain-h_{FE}= 25(Min.)@I_C = -4A
- · Collector-Emitter Saturation Voltage-
 - : V_{CE(sat})= -1.0 V(Max)@ I_C = -5A
- · Complement to Type BD313
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

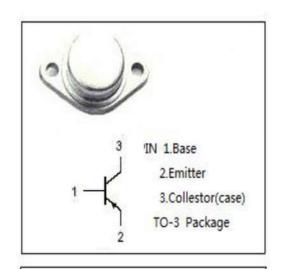
 Designed for high quality amplifiers operating up to 60 watts into 4 ohm load.

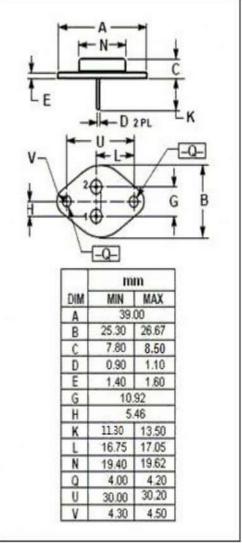


SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	-80		
V _{CEO}	Collector-Emitter Voltage	-80	٧	
V _{EBO}	Emitter-Base Voltage	-5	٧	
Ic	Collector Current-Continuous	-10	Α	
Ісм	Collector Current-Peak	-20	Α	
lΒ	Base Current-Continuous	-4	Α	
Pc	Collector Power Dissipation@T _C =25℃	115	W	
T_J	Junction Temperature	200	$^{\circ}$	
T _{stg}	Storage Temperature	-65~200	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	1.52	°C/W







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BD314

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B =0	-80		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A		-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A		-1.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4A; V _{CE} = -4V		-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -80V; I _B = 0		-1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7.0V; I _C = 0		-1.0	mA
h _{FE-1}	DC Current Gain	I _C = -4A; V _{CE} = -4V	25		
h _{FE-2}	DC Current Gain	I _C = -10A; V _{CE} = -4V	5		
fτ	Current Gain-Bandwidth Product	I _C = -0.5A; V _{CE} = -10V;f=1.0MHz	4		MHz

NOTICE:

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