

isc Silicon PNP Power Transistor

2SB816

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -120V(Min)
- · Good Linearity of hFE
- Wide Area of Safe Operation
- Complement to Type 2SD1046
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

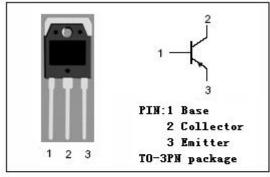


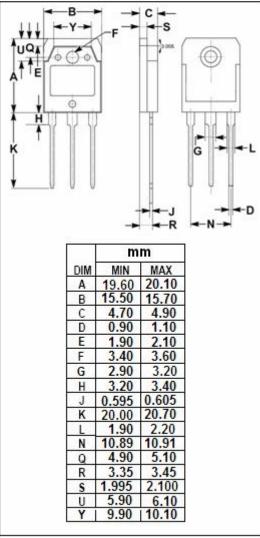
APPLICATIONS

 Designed for LF power amplifier, 50W output large power switching applications.



SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-150	V	
V _{CEO}	Collector-Emitter Voltage	-120	V	
V _{EBO}	Emitter-Base Voltage	-6	٧	
lc	Collector Current-Continuous	-8	Α	
I _{CP}	Collector Current-Pulse	-12	Α	
Pc	Collector Power Dissipation @ T _C =25℃	80	W	
T _J	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-40~150	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA ; R _{BE} =∞	-120			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -5mA; I _E = 0	-150			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = -5mA; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A			-2.0	V
V _{BE(on)}	Base -Emitter On Voltage	I _C = -1A; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E =0			-100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C =0			-100	μА
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -5V	20			

h_{FE-1} Classifications

D	E
60-120	100-200

NOTICE:

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