

isc Silicon NPN Power Transistor

DESCRIPTION

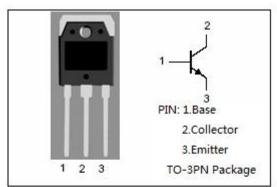
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V(Min)
- Large Collector Power Dissipation
- Complement to Type 2SB812
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

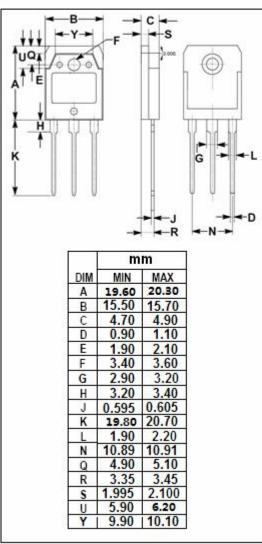
APPLICATIONS

· Designed for AF power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	4	А
Ісм	Collector Current-Peak	8	А
Pc	Collector Power Dissipation @ T _C =25°C	60	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







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2SD1032

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 ; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A ; V _{CE} = 4V			2	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 30V ; I _B = 0			700	μА
I _{CES}	Collector Cutoff Current	V _{CE} = 60V ; V _{BE} = 0			400	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 4V	40		250	
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 4V	15			
Switching times						
t _{on}	Turn-On Time	1 - 40 1 - 1 - 0 40		0.2		μ S
t _{off}	Turn-Off Time	I _C = 4A ,I _{B1} = I _{B2} = 0.4A		1.4		μS

♦ h_{FE-1} Classifications

R	Q	Р
40-90	70-150	120-250

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