

isc Silicon NPN Power Transistor

2SC2834

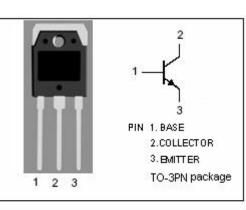
DESCRIPTION

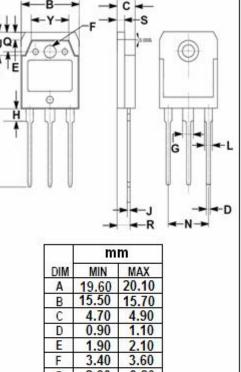
- · High Breakdown Voltage-
- : V_{(BR)CBO}= 800V(Min)
- High Switching Speed
- Low Collector Saturation Voltage
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for high speed switching applications.

INIT
V
V
V
A
A
A
W
°C
°C





A	19.60	20.10
В	15.50	15.70
С	4.70	4.90
D	0.90	1.10
Ε	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
Κ	20.00	20.70
L	1.90	2.20
Ν	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.10
Y	9.90	10.10

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =10mA; I _B =0	500			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			0.1	mA
Іево	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		3.5		MHz

Switching times

t _{on}	Turn-on Time			1.0	μ S
t _{stg}	Storage Time	I_{C} = 5A, I_{B1} = - I_{B2} = 1A; V _{CC} = 200V		2.5	μ s
t _f	Fall Time			1.0	μ s

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