

isc Silicon PNP Power Transistor

MJE4353

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -160V(Min)
- DC current gain -
 - : h_{FE} = 15 (Min) @I_C= -8 A
- : h_{FE} = 8 (Min) @I_C= -16A
- Complement to Type MJE4343
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

lc

 I_B

 P_C

Ti

Tstg

• For use in high power audio amplifier and switching regulator circuits

SYMBOL PARAMETER VALUE V _{CBO} Collector-Base Voltage -160 V _{CEO} Collector-Emitter Voltage -160		
SYMBOL	PARAMETER	VALUE
V _{CBO}	Collector-Base Voltage	-160
V _{CEO}	Collector-Emitter Voltage	-160
VEBO	Emitter-Base Voltage	-7

Collector Current -Continuous

Collector Power Dissipation

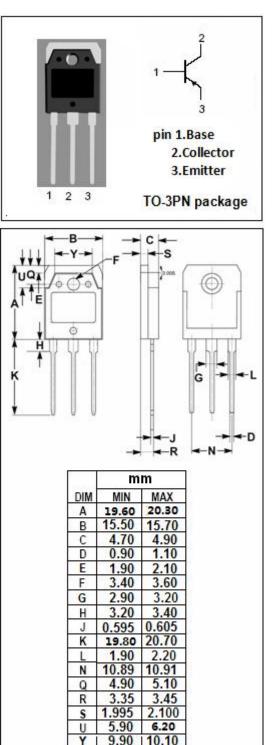
Junction Temperature

Storage Temperature

Base Current

@Tc=25℃





THERMAL CHARACTERISTICS							
SYMBOL	PARAMETER	МАХ	UNIT				
Rth j-c	Thermal Resistance, Junction to Case	1.0	°C/W				

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UNIT

v

V

V

А

А

W

°C

°C

-16

-5

125

-65~150

-65~150



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ELECTRICAL CHARACTERISTICS

Tj=25° \mathbb{C} unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -100mA ;I _B = 0	-160		V
V _{CE(sat)} -1	Collector-Emitter Saturation Voltage	I _C = -8A ;I _B = -0.8A		-2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -16A ;I _B = -2A		-3.5	V
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage	I _C = -16A ;I _B = -2A		-3.9	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = -16A ; V _{CE} = -4V		-3.9	V
I _{CBO}	Collector-Base Cutoff Current	V _{CB} = -160V; I _E = 0		-750	μA
ICEO	Collector-Emitter Cutoff Current	V _{св} = -80V; I _E = 0		-750	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0		-1	mA
h _{FE-1}	DC Current Gain	I _C = -8A ; V _{CE} = -2V	15		
h _{FE-2}	DC Current Gain	I _C = -16A ; V _{CE} = -4V	8		

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