

DESCRIPTION

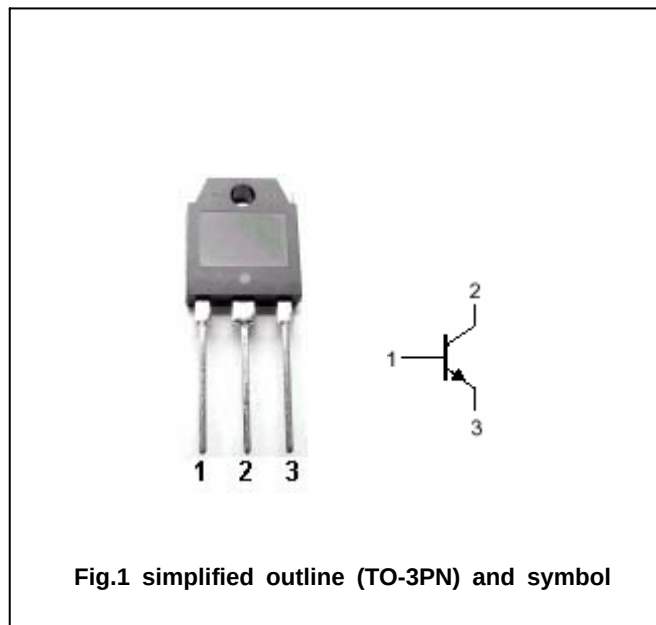
- With TO-3PN package
- Respectively complement to type MJE4350/4351/4352/4353
- DC current gain $h_{FE}=8(\text{Min})@I_C=16\text{A}$

APPLICATIONS

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

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter



Absolute maximum ratings($T_a=^{\circ}\text{C}$)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	MJE4340	Open emitter	100	V
		MJE4341		120	
		MJE4342		140	
		MJE4343		160	
V_{CEO}	Collector-emitter voltage	MJE4340	Open base	100	V
		MJE4341		120	
		MJE4342		140	
		MJE4343		160	
V_{EBO}	Emitter-base voltage		Open collector	7	V
I_C	Collector current			16	A
I_{CM}	Collector current-peak			20	A
I_B	Base current			5	A
P_C	Collector power dissipation		$T_C=25^{\circ}\text{C}$	125	W
T_j	Junction temperature			150	$^{\circ}\text{C}$
T_{stg}	Storage temperature			-65~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	1.0	$^{\circ}\text{C/W}$

CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEQ(SUS)}	Collector-emitter sustaining voltage	MJE4340	I _C =100mA ; I _B =0	100			V
		MJE4341		120			
		MJE4342		140			
		MJE4343		160			
V _{CEsat-1}	Collector-emitter saturation voltage		I _C =8A ; I _B =0.8A			2.0	V
V _{CEsat-2}	Collector-emitter saturation voltage		I _C =16A ; I _B =2.0A			3.5	V
V _{BEsat}	Base-emitter saturation voltage		I _C =16A ; I _B =2.0A			3.9	V
V _{BE}	Base-emitter on voltage		I _C =16A ; V _{CE} =4V			3.9	V
I _{CEO}	Collector cut-off current	MJE4340	V _{CE} =50V ; I _B =0			0.75	mA
		MJE4341	V _{CE} =60V ; I _B =0				
		MJE4342	V _{CE} =70V ; I _B =0				
		MJE4343	V _{CE} =80V ; I _B =0				
I _{CEX}	Collector cut-off current		V _{CE} =RatedV _{CB0} ; V _{BE} =1.5V T _C =150°C			1.0 5.0	mA
I _{CBO}	Collector cut-off current		V _{CB} =RatedV _{CB} ; I _E =0			0.75	mA
I _{EBO}	Emitter cut-off current		V _{EB} =7V ; I _C =0			1.0	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			
C _{OB}	Output capacitance		I _E =0 ; V _{CB} =10V ; f=0.1MHz			800	pF
f _T	Transition frequency		I _C =-1A ; V _{CE} =20V ; f=0.5MHz	1.0			MHz

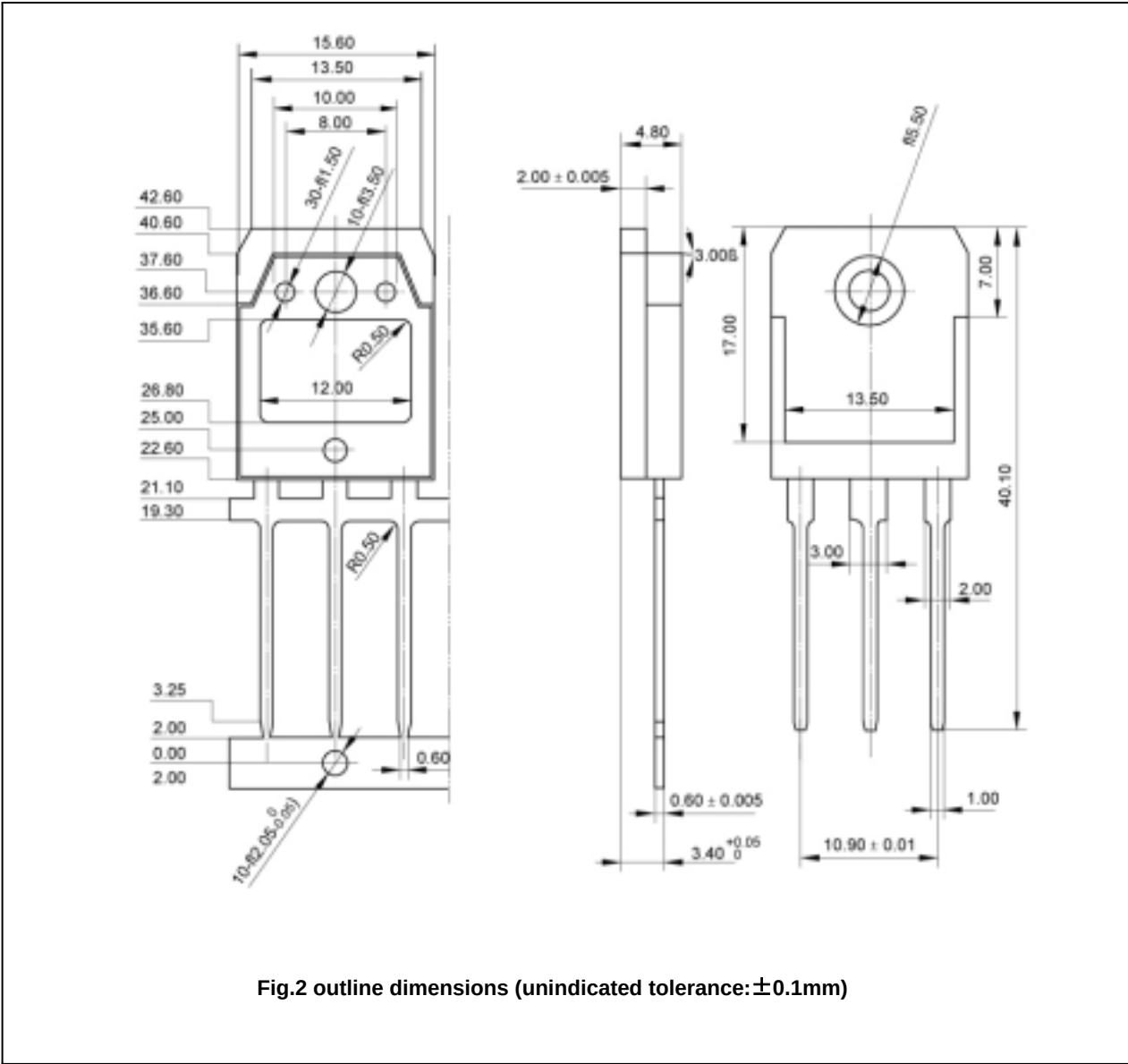


Fig.2 outline dimensions (unindicated tolerance: $\pm 0.1\text{mm}$)