

Silicon PNP Power Transistors

MJE4350/4351/4352/4353

DESCRIPTION

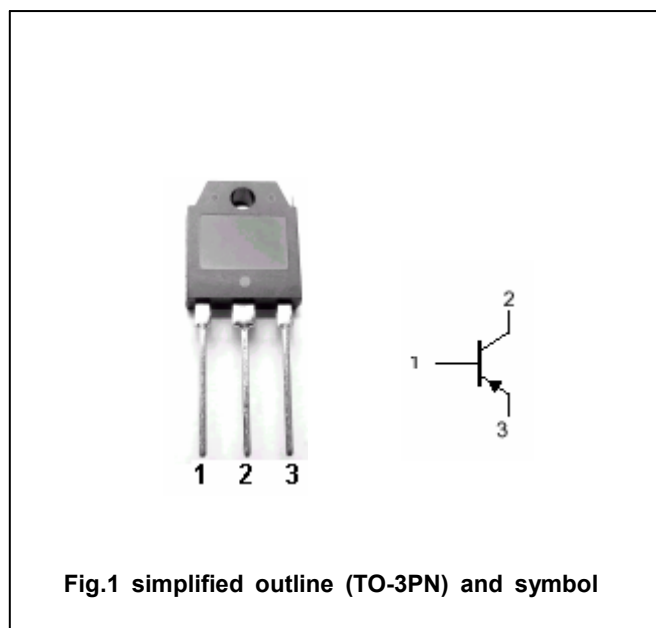
- With TO-3PN package
- Respectively complement to type
MJE4340/4341/4342/4343
- DC current gain $h_{FE}=8(\text{Min})@I_C=16\text{A}$

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($T_C=25^\circ\text{C}$)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	MJE4350	Open emitter	-100	V
		MJE4351		-120	
		MJE4352		-140	
		MJE4353		-160	
V_{CEO}	Collector-emitter voltage	MJE4350	Open base	-100	V
		MJE4351		-120	
		MJE4352		-140	
		MJE4353		-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		$T_C=25$	125	W
T_j	Junction temperature			150	
T_{stg}	Storage temperature			-65~150	

THERMAL CHARACTERISTICS

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

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	MJE4350	I _C =-100mA ; I _B =0	-100			V
		MJE4351		-120			
		MJE4352		-140			
		MJE4353		-160			
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 =-2.0A			-3.5	V
V _{BE(sat)}	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	MJE4350	V _{CE} =-50V ; I _B =0			-0.75	mA
		MJE4351	V _{CE} =-60V ; I _B =0				
		MJE4352	V _{CE} =-70V ; I _B =0				
		MJE4353	V _{CE} =-80V ; I _B =0				
I _{CEX}	Collector cut-off current		V _{CE} =RatedV _{CBO} ; V _{BE} =-1.5V T _C =150			-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

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