

Silicon NPN Power Transistors

MJ4033/4034/4035

DESCRIPTION

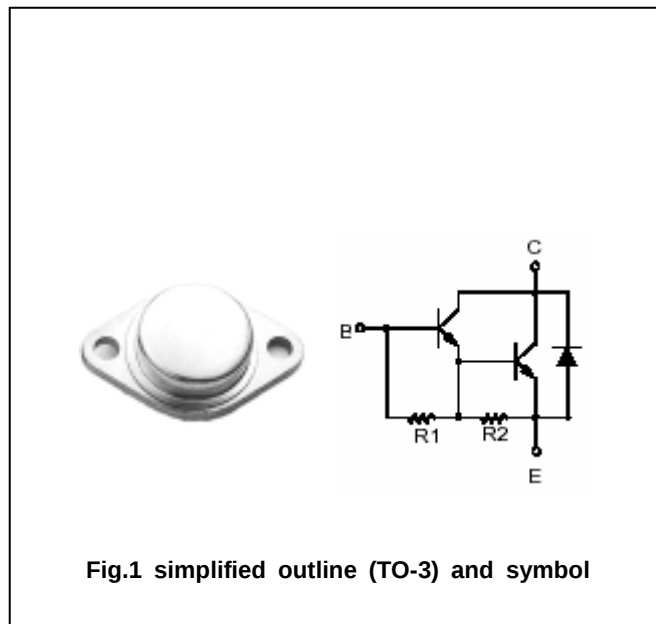
- With TO-3 package
- Respectively complement to type MJ4030/4031/4032
- DARLINGTON
- High DC current gain

APPLICATIONS

- For use as output devices in complementary general purpose amplifier applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector



Absolute maximum ratings(Ta=)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	MJ4033	60	V
		MJ4034	80	
		MJ4035	100	
V_{CEO}	Collector-emitter voltage	MJ4033	60	V
		MJ4034	80	
		MJ4035	100	
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		16	A
I_{CM}	Collector current-peak		20	A
I_B	Base current		0.5	A
P_C	Collector power dissipation	$T_C=25$	150	W
T_j	Junction temperature		200	
T_{stg}	Storage temperature		-65~200	

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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	MJ4033	I _C =0.1A ; I _B =0	60			V
		MJ4034		80			
		MJ4035		100			
V _{CEsat-1}	Collector-emitter saturation voltage		I _C =10A; I _B =40mA			2.5	V
V _{CEsat-2}	Collector-emitter saturation voltage		I _C =16A; I _B =80mA			4.0	V
V _{BE}	Base-emitter on voltage		I _C =10A ; V _{CE} =3V			3.0	V
I _{CEO}	Collector cut-off current		V _{CE} =30V; I _B =0			3.0	mA
			V _{CE} =40V; I _B =0				
			V _{CE} =50V; I _B =0				
I _{EBO}	Emitter cut-off current		V _{EB} =5V; I _C =0			5.0	mA
h _{FE}	DC current gain		I _C =10A ; V _{CE} =3V	1000			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	1.17	/W

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PACKAGE OUTLINE

