

Silicon PNP Power Transistors

2N6132 2N6133 2N6134

DESCRIPTION

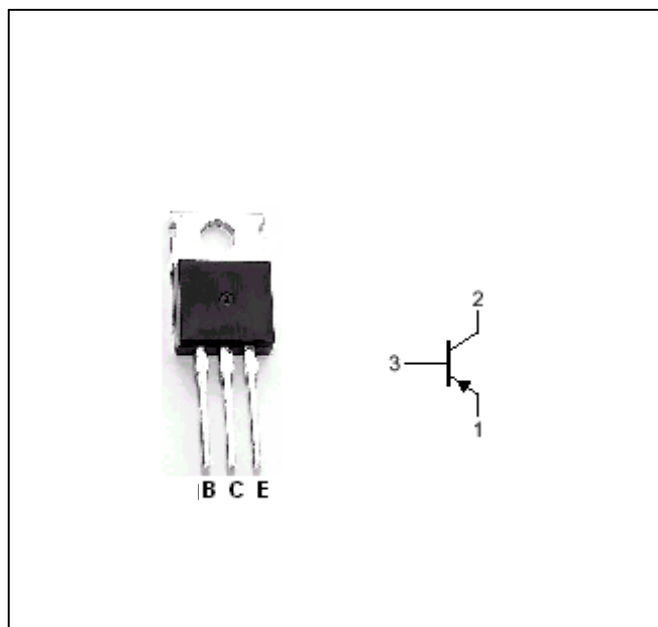
- With TO-220 package
- High power dissipation
- Complement to NPN type :
2N6129 2N6130 2N6131

APPLICATIONS

- Power amplifier and medium speed switching applications

PINNING

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

Absolute maximum ratings($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2N6132	40	V
		2N6133	60	
		2N6134	80	
V_{CEO}	Collector-emitter voltage	2N6132	40	V
		2N6133	60	
		2N6134	80	
V_{EBO}	Emitter-base voltage	Open collector	5	V
I_C	Collector current		7	A
I_B	Base current		3	A
P_T	Total power dissipation	$T_C=25$	50	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-65~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal resistance from junction to case	2.5	/W

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CHARACTERISTICS

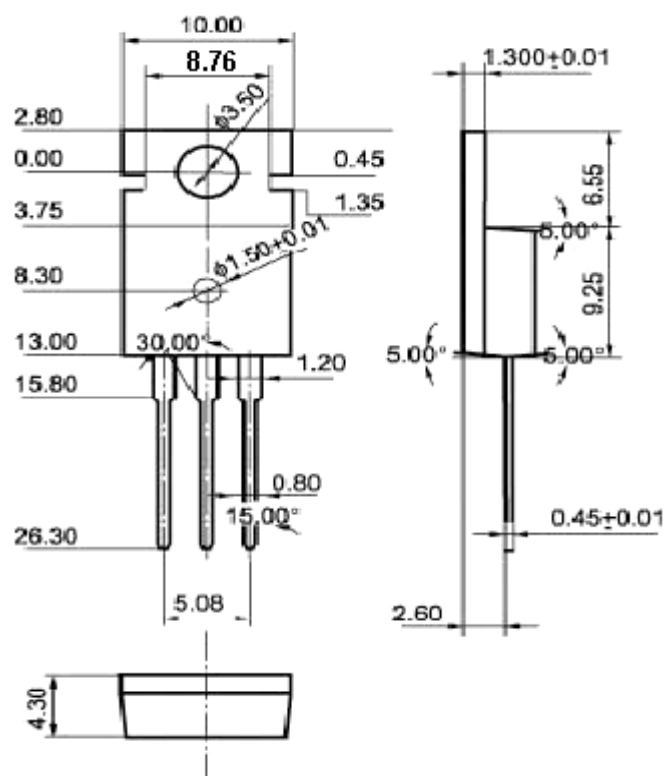
T_j=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustioning voltage	2N6132	I _C =0.1A ; I _B =0	40			V
		2N6133		60			
		2N6134		80			
V _{CEsat}	Collector-emitter saturation voltage	2N6132	I _C =7A; I _B =1.2A			1.4	V
		2N6133				1.8	
		2N6134					
V _{BE}	Base-emitter on voltage		I _C =2.5A ; V _{CE} =4V			1.4	V
I _{CEV}	Collector cut-off current	2N6132	V _{CE} =40V; V _{BE} =1.5V T _C =150			0.5 3.0	mA
		2N6133	V _{CE} =60V; V _{BE} =1.5V T _C =150			0.5 3.0	
		2N6134	V _{CE} =80V; V _{BE} =1.5V T _C =150				0.5 3.0
I _{EBO}	Emitter cut-off current		V _{EB} =5V; I _C =0			1.0	mA
h _{FE}	DC current gain		I _C =2.5A ; V _{CE} =4V	20		100	
f _T	Transition frequency		I _C =0.2A ; V _{CE} =4V	2.5			MHz

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PACKAGE OUTLINE

Fig.2 Outline dimensions(unindicated tolerance: ± 0.10 mm)