

DESCRIPTION

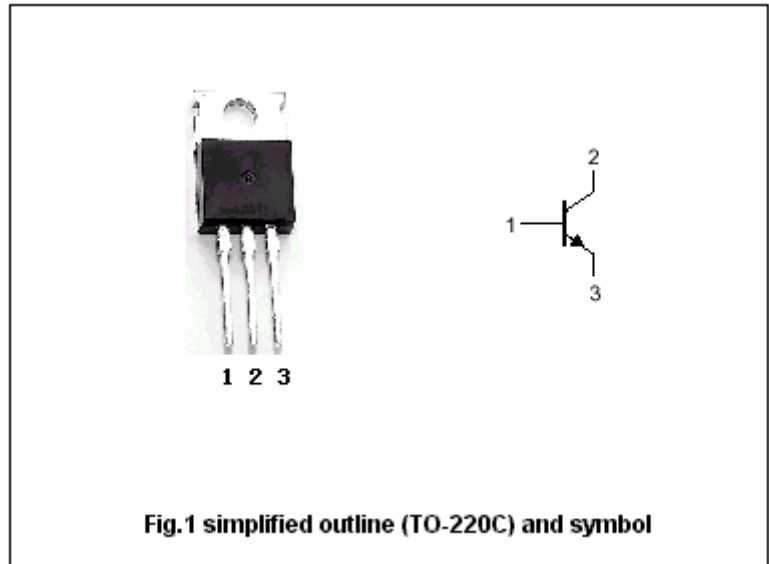
- With TO-220 package
- Complement to type 2SA814/815
- High breakdown voltage

APPLICATIONS

- Medium power amplifier applications
- Driver stage amplifier applications

PINNING

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



Absolute maximum ratings (Ta=25℃)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2SC1624	Open emitter	120	V
		2SC1625		100	
V_{CEO}	Collector-emitter voltage	2SC1624	Open base	120	V
		2SC1625		100	
V_{EBO}	Emitter-base voltage		Open collector	5	V
I_C	Collector current			1	A
I_E	Emitter current			-1	A
P_C	Collector power dissipation		$T_C=25^{\circ}\text{C}$	15	W
T_j	Junction temperature			150	$^{\circ}\text{C}$
T_{stg}	Storage temperature			-55~150	$^{\circ}\text{C}$

CHARACTERISTICS

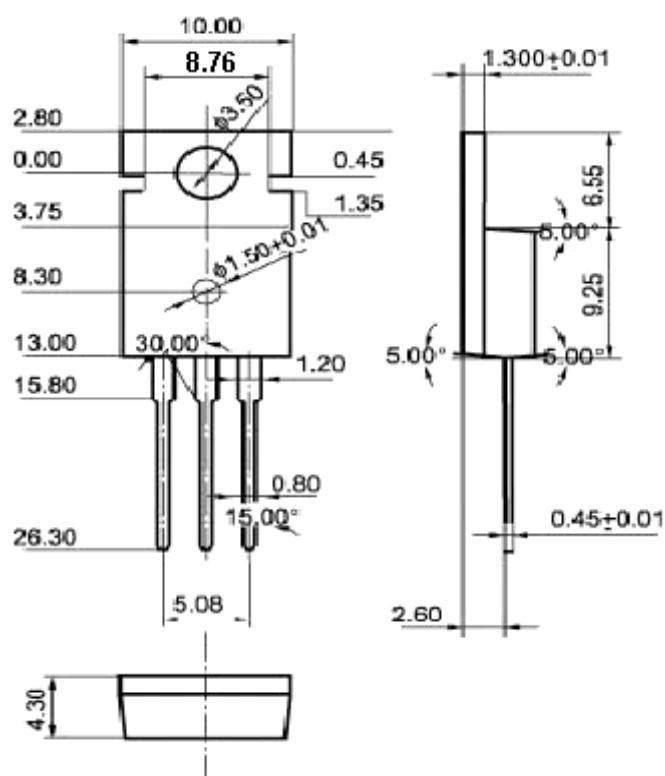
T_j=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	2SC1624	I _C =10mA; I _B =0	120			V
		2SC1625		100			
V _{(BR)EBO}	Emitter-base breakdown voltage		I _E =1mA; I _C =0	5			V
V _{CEsat}	Collector-emitter saturation voltage		I _C =500mA; I _B =50mA			0.5	V
V _{BE}	Base-emitter on voltage		I _C =500mA; V _{CE} =5V			1.0	V
I _{CBO}	Collector cut-off current		V _{CB} =50V; I _E =0			1.0	μA
I _{EBO}	Emitter cut-off current		V _{EB} =5V; I _C =0			1.0	μA
h _{FE-1}	DC current gain		I _C =150mA; V _{CE} =5V	70		240	
h _{FE-2}	DC current gain		I _C =500mA; V _{CE} =5V	40			
C _{OB}	Output capacitance		I _E =0; V _{CB} =10V; f=1MHz		20		pF
f _T	Transition frequency		I _C =150mA; V _{CE} =5V		30		MHz

◆ h_{FE-1} Classifications

O	Y
70-140	120-240

PACKAGE OUTLINE

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