

Silicon NPN Power Transistors

BU326 BU326A

DESCRIPTION

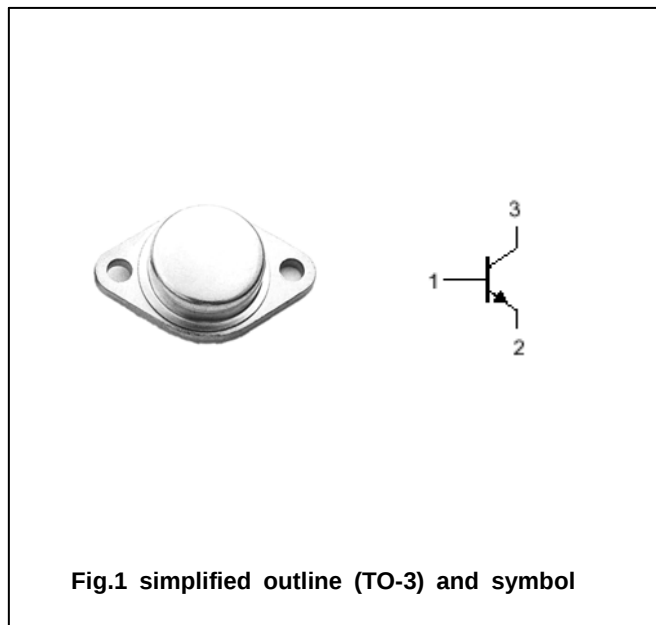
- With TO-3 package
- High voltage;high speed
- Low collector saturation voltage.

APPLICATIONS

- Intended for operating in CTV receiver's chopper supplies.

PINNING(see fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector



Absolute maximum ratings (Tc=25°C)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	BU326	Open emitter	800	V
		BU326A		900	
V_{CEO}	Collector-emitter voltage	BU326	Open base	375	V
		BU326A		400	
V_{EBO}	Emitter-base voltage		Open collector	10	V
I_C	Collector current			6	A
I_{CM}	Collector current-peak			8	A
I_B	Base current			3	A
P_T	Total power dissipation		$T_C=25^{\circ}\text{C}$	75	W
T_j	Junction temperature			-65~200	$^{\circ}\text{C}$
T_{stg}	Storage temperature			-65~200	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-C}$	Thermal resistance junction to case	2.33	$^{\circ}\text{C/W}$

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE0(SUS)}	Collector-emitter sustaining voltage	BU326	I _C =0.1A; I _B =0	375			V
		BU326A		400			
V _{CEsat-1}	Collector-emitter saturation voltage		I _C =2.5 A; I _B =0.5A			1.5	V
V _{CEsat-2}	Collector-emitter saturation voltage		I _C =4A; I _B =1.25 A			3.0	V
V _{BEsat-1}	Base-emitter saturation voltage		I _C =2.5 A; I _B =0.5A			1.4	V
V _{BEsat-2}	Base-emitter saturation voltage		I _C =4A; I _B =1.25 A			1.6	V
I _{CES}	Collector cut-off current	BU326	V _{CE} =800V; V _{BE} =0			1	mA
		BU326A	V _{CE} =900V; V _{BE} =0				
I _{EBO}	Emitter cut-off current		V _{EB} =10V; I _C =0			10	mA
h _{FE}	DC current gain		I _C =1A ; V _{CE} =5V		25		
f _T	Transition frequency		I _C =0.2A ; V _{CE} =10V; f=1MHz	4.0			MHz

Switching times

t _{on}	Turn-on time	I _C =2.5A ; I _{B1} =0.5A; I _{B2} =-1A V _{CC} =250V ;			0.5	μ s
t _s	Storage time				3.5	μ s
t _f	Fall time				0.5	μ s

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PACKAGE OUTLINE

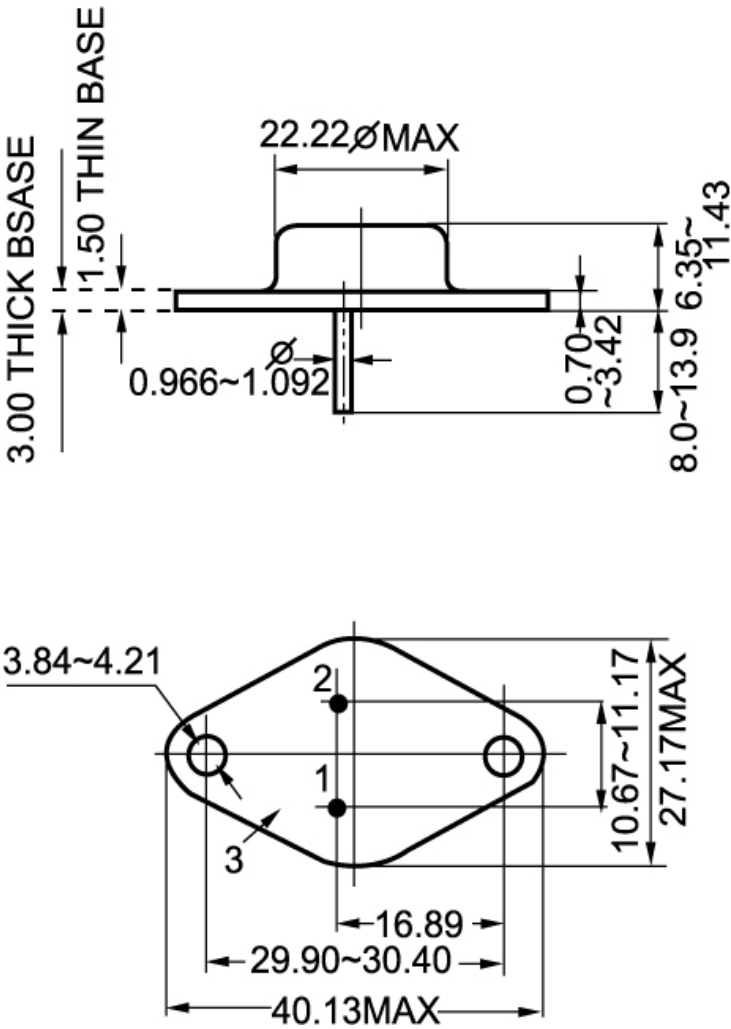


Fig.2 Outline dimensions