

Silicon PNP Power Transistors

2SB632 2SB632K

DESCRIPTION

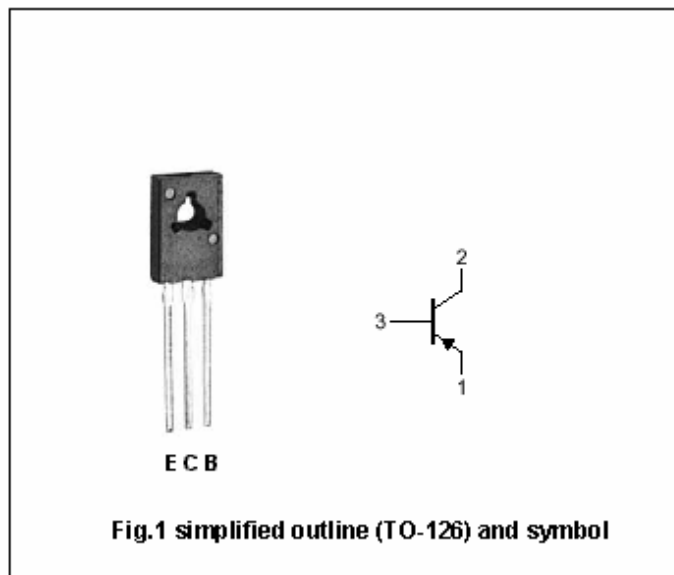
- With TO-126 package
- Complement to type 2SD612/612K
- High collector dissipation
- Wide ASO(Safe Operating Area)

APPLICATIONS

- 25V/35V, 2A low-frequency power amplifier 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	2SB632	-25	V
		2SB632K	-35	
V_{CEO}	Collector-emitter voltage	2SB632	-25	V
		2SB632K	-35	
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current (DC)		-2	A
I_{CM}	Collector current-Peak		-3	A
P_D	Total power dissipation	$T_a=25^\circ\text{C}$	1	W
		$T_C=25^\circ\text{C}$	10	
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

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CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	2SB632	$I_C=-1mA; R_{BE}=\infty$	-25			V
		2SB632K		-35			
$V_{(BR)CBO}$	Collector-base breakdown voltage	2SB632	$I_C=-10\mu A; I_E=0$	-25			V
		2SB632K		-35			
$V_{(BR)EBO}$	Emitter-base breakdown voltage		$I_E=-10\mu A; I_C=0$	-5			V
V_{CEsat}	Collector-emitter saturation voltage		$I_C=-1.5A; I_B=-0.15A$		-0.4	-0.9	V
V_{BEsat}	Base-emitter saturation voltage		$I_C=-1.5A; I_B=-0.15A$		-1.1	-1.5	V
I_{CBO}	Collector cut-off current		$V_{CB}=-20V; I_E=0$			-1	μA
I_{EBO}	Emitter cut-off current		$V_{EB}=-4V; I_C=0$			-1	μA
h_{FE-1}	DC current gain		$I_C=-0.5A; V_{CE}=-2V$	60		320	
h_{FE-2}	DC current gain		$I_C=-1.5A; V_{CE}=-2V$	30			
f_T	Transition frequency		$I_C=-50mA; V_{CE}=-10V$		100		MHz
C_{OB}	Collector output capacitance		$f=1MHz; V_{CB}=-10V$		45		pF

Switching times

t_{on}	Turn-on time	$I_C=500mA; V_{CE}=12V$ $I_{B1}=-I_{B2}=50mA$		0.06		μs
t_f	Fall time			0.08		μs
t_{stg}	Storage time			0.40		μs

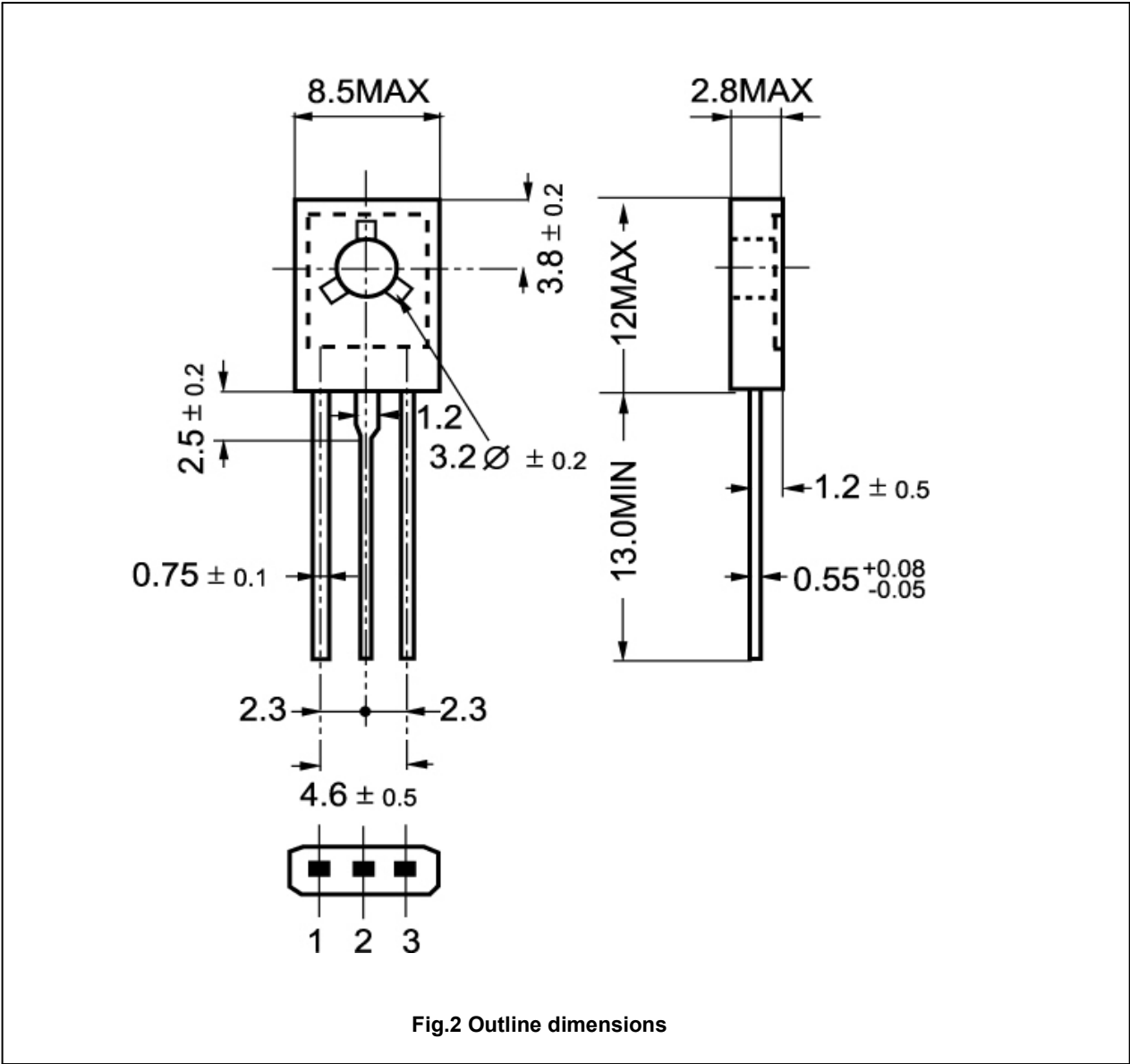
◆ h_{FE-1} Classifications

D	E	F
60-120	100-200	160-320

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PACKAGE OUTLINE



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