2SD612 2SD612K

DESCRIPTION

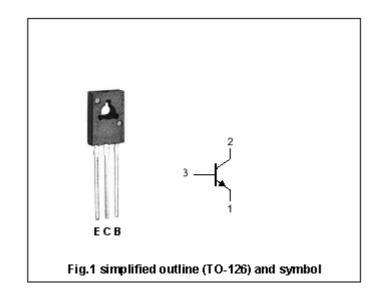
- ·With TO-126 package
- ·Complement to type 2SB632/632K
- ·High collector dissipation
- ·Wide area of safe operation

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(Ta=25□)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	2SD612	Open emitter	25	V
		2SD612K		35	
V _{CEO}	Collector-emitter voltage	2SD612	Open base	25	V
		2SD612K		35	
V _{EBO}	Emitter-base voltage		Open collector	5	V
Ic	Collector current (DC)			2	Α
Ісм	Collector current-peak			3	Α
P _D	Total power dissipation		T _a =25□	1	W
			T _C =25□	10	l vv
T _j	Junction temperature			150	
T _{stg}	Storage temperature			-55~150	

2SD612 2SD612K

CHARACTERISTICS

Tj=25□ unless otherwise specified

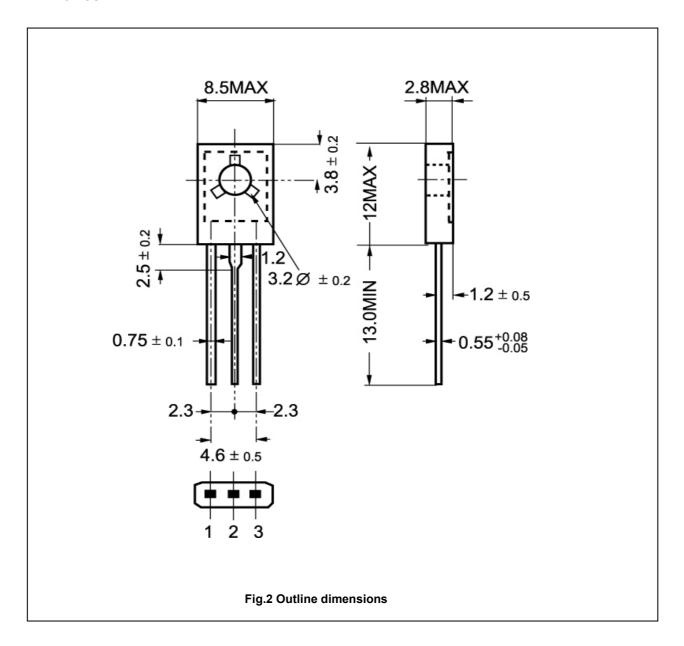
1j=25 uniess otherwise specified							
SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V/DD\050	Collector-emitter	2SD612	- I _C =1mA; R _{BE} =∞	25			V
	breakdown voltage	2SD612K		35			
V _{(BR)CBO} Collector-base breakdown voltage	Collector-base	2SD612	- I _C =10μΑ ;I _E =0	25			V
	breakdown voltage	2SD612K		35			
V _{(BR)EBO}	Emitter-base breakdown voltage		I _E =10μA ;I _C =0	5			V
V _{CEsat}	Collector-emitter saturation voltage		I _C =1.5A ;I _B =0.15A		0.3	0.8	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
Сов	Collector output capacitance		f=1MHz ; V _{CB} =10V		30		pF
Switching ti	nes			1	1		
t _{on}	Turn-on time Fall time		I _C =500mA ; V _{CE} =12V I _{B1} =-I _{B2} =50mA		0.05		μs
t _f					0.10		μs
t _{stg}	Storage time				0.40		μs

♦ h_{FE-1} Classifications

D	Е	F
60-120	100-200	160-320

2SD612 2SD612K

PACKAGE OUTLINE



2SD612 2SD612K

