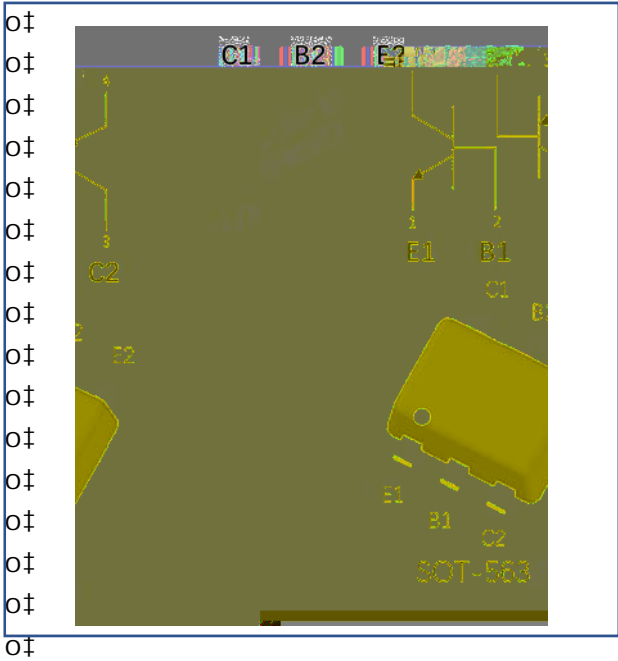




## Dual NPN+PNP Small Signal Transistor



**Features**

- z 0RLVWXUH VHQVLWLYLW\ OHYHO
- z +DORJHQ IUHH DQG 5R+6 FRPSOL
- z 6XUIDFH PRXQW SDFNDJH LGHDOO
- PDWLF ,QVHUWLRQ

**Application**

- z 6LJQDO DPSOLILFDWLRQ
- z 6ZLWFKLQJ FLUFXLW

**Mechanical data**

- z Package SOT-563
- z Terminals Tin plated leads z solderable per
- >-STD- \$ \$ 2 and >ESD22-B1 \$ 2

TR1-NPN

Item	Symbol	Unit	Conditions	Value
Device marking code				Z7
Collector-base voltage	$V_{CBO}$	V	$I_C 11 \$ \$ uA1z\$$	15
Collector-emitter voltage	$V_{CEO}$	V	$I_C 11mAz1 \$$	12
Emitter-base voltage	$V_{EBO}$	V	$I_E 11 \$ \$ uA1z\$$	6
Collector current	$I_C$	mA		5 \$ \$
Power dissipation	$P_D$	mK		15 \$
unction temperature	$T$			-55 to +15 \$

Unless otherwise specified)

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## TR2-PNP

Item	Symbol	Unit	Conditions	Value
Collector-base voltage	$V_{BO}$	V	$I_C 1 - 1 \text{ mA}$	-15
Collector-emitter voltage	$V_{CE}$	V	$I_C 1 - 1 \text{ mA}$	-12
Emitter-Base voltage	$V_{BE}$	V	$I_E 1 - 1 \text{ mA}$	-6
Collector current	$I_C$	mA		-5
Power dissipation	$P_D$	mK		15
junction temperature	$T_J$			-55 to +15
Storage temperature	$T_{STG}$			-55 to +15

## TR1-NPN

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	$I_C 1 - 1 \text{ mA}$	15		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	$I_C 1 - 1 \text{ mA}$	12		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	$I_E 1 - 1 \text{ mA}$	6		

Collector-base cut-off current

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## TR2-PNP

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$(B^*)_{CBO}$					

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6 6  
5 HY

ODU

< D Q J ] K R X < D Q J M L H H F ( K O C H F O M R U J R O & R Z / W D C Q J M L H F R F



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6 6  
5 HY

ODU

< D Q J ] K R X

< D Q J M I Z H H F ( K O C H F O M R U J R O & B Z

/ W D C Q J M L H F R P



Fig 7 P<sub>D</sub>-T<sub>a</sub> Curve

TR2-PNP

Fig 1 Static Characteristics

Fig 2 DC Current Gain Characteristics

ratio Fig 3 Collector-Emitter f<sub>t</sub>

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6 6  
5 HY

0 D U

< D Q J ] K R X

< D Q J M L H H F ( K O C H F O V R U J R O & R Z

/ W D C Q J M L H F R P



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6 6  
5 HY

ODU

< D Q J ] K R X

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Preferred P/M

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6 6  
5 HY

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< D Q J M L H H F ( K O C H F O M R U J R O & B Z

/ W D C Q J M L H F R P

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