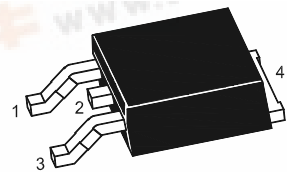


ST 2SB1261R

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PNP Silicon Epitaxial Planar Transistor

for power switching and amplifier applications



1. Base 2. Collector 3. Emitter 4. Collector
TO-252 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

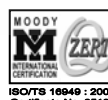
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	60	V
Collector Emitter Voltage	$-V_{CEO}$	60	V
Emitter Base Voltage	$-V_{EBO}$	7	V
Collector Current	$-I_C$	3	A
Collector Current (10 ms)	$-I_{CP}$	5	A
Base Current	$-I_B$	0.5	A
Power Dissipation ($T_a = 25^\circ\text{C}$)	P_{tot}	2	W
Power Dissipation ($T_c = 25^\circ\text{C}$)	P_{tot}	10	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $-V_{CE} = 2\text{ V}$, $-I_C = 0.6\text{ A}$	Current Gain Group M L K	h_{FE}	100	-	200	-
		h_{FE}	160	-	320	-
		h_{FE}	200	-	400	-
		h_{FE}	50	-	-	-
at $-V_{CE} = 2\text{ V}$, $-I_C = 2\text{ A}$						
Collector Base Cutoff Current at $-V_{CB} = 60\text{ V}$	$-I_{CBO}$	-	-	10	μA	
Emitter Base Cutoff Current at $-V_{EB} = 7\text{ V}$	$-I_{EBO}$	-	-	10	μA	
Collector Emitter Saturation Voltage at $-I_C = 1.5\text{ A}$, $-I_B = 0.15\text{ A}$	$-V_{CE(sat)}$	-	-	0.3	V	
Base Emitter Saturation Voltage at $-I_C = 1.5\text{ A}$, $-I_B = 0.15\text{ A}$	$-V_{BE(sat)}$	-	-	1.2	V	
Transition Frequency at $-V_{CE} = 5\text{ V}$, $-I_C = 1.5\text{ A}$	f_T	-	50	-	MHz	
Turn On Time at $-I_C = 1\text{ A}$, $-I_B = I_B = 100\text{ mA}$, $-V_{CC} = 10\text{ V}$, $R_L = 10\ \Omega$	t_{on}	-	-	0.5	μs	
Storage Time at $-I_C = 1\text{ A}$, $-I_B = I_B = 100\text{ mA}$, $-V_{CC} = 10\text{ V}$, $R_L = 10\ \Omega$	t_{stg}	-	-	2	μs	
Fall Time at $-I_C = 1\text{ A}$, $-I_B = I_B = 100\text{ mA}$, $-V_{CC} = 10\text{ V}$, $R_L = 10\ \Omega$	t_f	-	-	0.5	μs	

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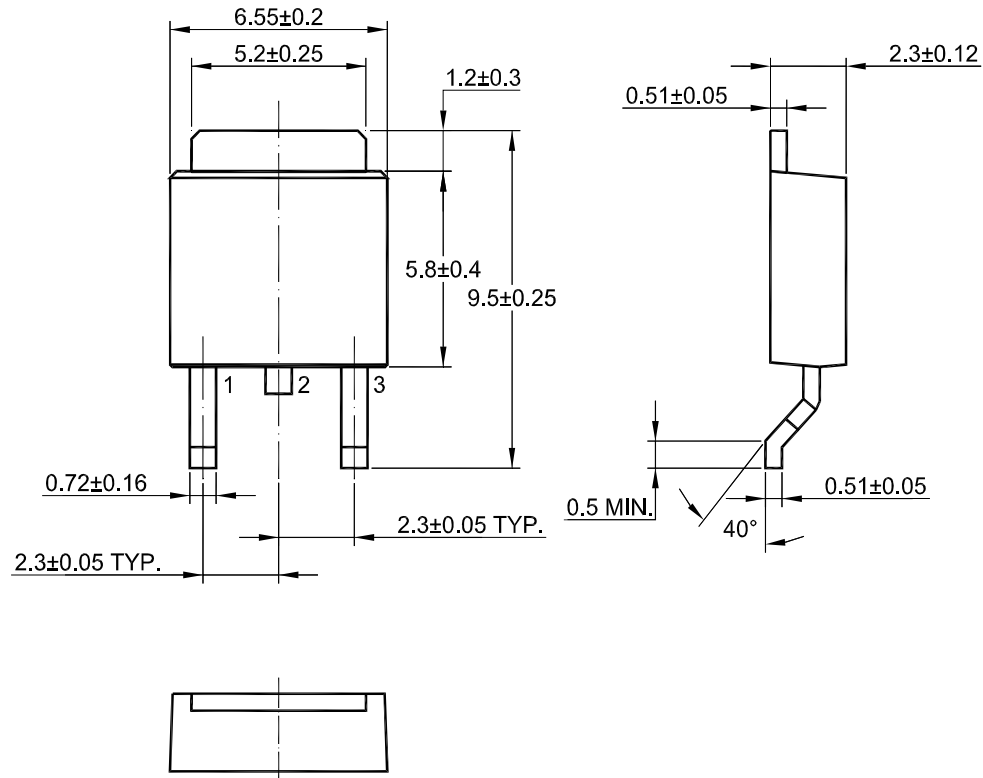
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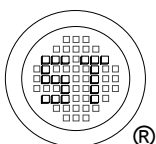
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TO-252 PACKAGE OUTLINE

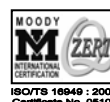


Dimensions in mm



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Dated : 23/09/2009