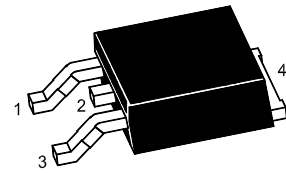


2SB1261R

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

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 ($T_a = 25\text{ }^\circ\text{C}$)	P_{tot}	2	W
Power Dissipation ($T_c = 25\text{ }^\circ\text{C}$)	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 $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit		
DC Current Gain at $-V_{CE} = 2\text{ V}$, $-I_C = 0.6\text{ A}$ at $-V_{CE} = 2\text{ V}$, $-I_C = 2\text{ A}$	Current Gain Group	M L K	h_{FE}	100	-	200	-
			h_{FE}	160	-	320	-
			h_{FE}	200	-	400	-
			h_{FE}	50	-	-	-
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		

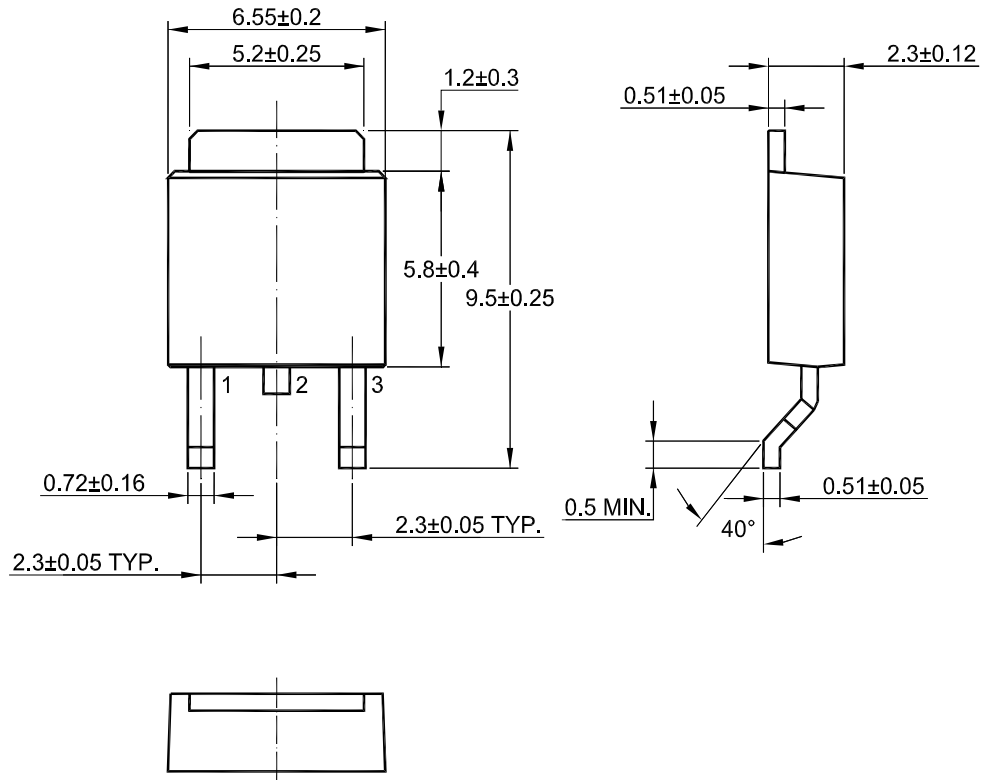
TOP DYNAMIC



ISO14001 : 2004 Certificate No. 121505007
 ISO 9001 : 2008 Certificate No. 50114012
 OHSAS 18001 : 2007 Certificate No. 05191508008
 IECQ QC 080000 Certificate No. E2411000741M2

2SB1261R

TO-252 PACKAGE OUTLINE



Dimensions in mm

TOP DYNAMIC



Dated : 31/08/2016 Rev: 01