

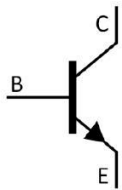
Rev.E May.-2016

TO-263 NPN Silicon NPN transistor in a TO-263 Plastic Package.

- - MJE15037B

High DC current gain, High V_{CEO} , High f_T . Complementary pair with MJE15037B.

Designed for us as high-frequency drivers in audio amplifiers.



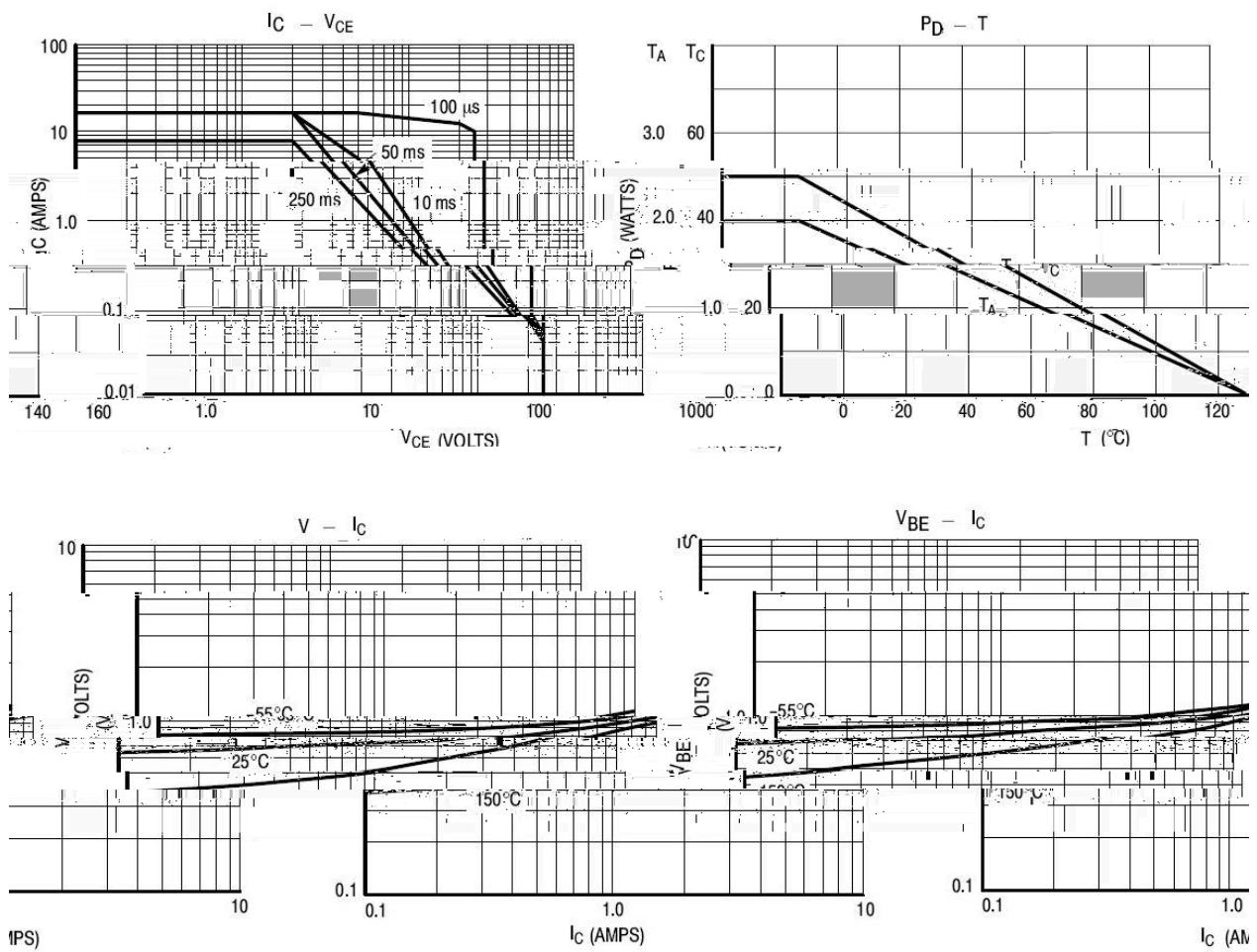
PIN1 Base PIN 2 4 Collector PIN 3 Emitter

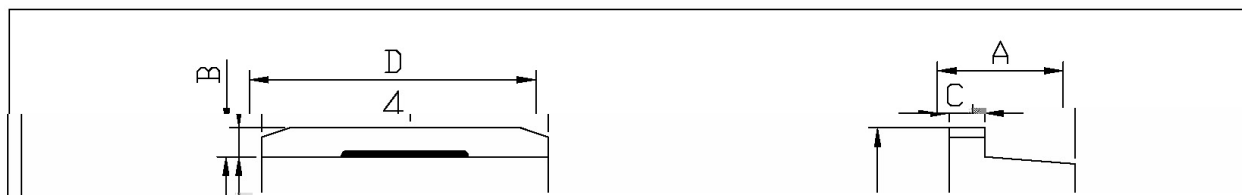
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	250	V
Collector to Emitter Voltage	V_{CEO}	250	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	8	A
Base current	I_B	2	A
Total power dissipation	P_D	2	W
	$P_D(T_C=25^\circ\text{C})$	50	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-65 ~ 150	
Thermal Resistance Junction-case	R_{JC}	2.5	/W
Thermal Resistance Junction-ambient	R_{JA}	62.5	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10\text{mA}$ $I_B=0$	250			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=250\text{V}$ $I_E=0$			1.0	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			1.0	A
DC Current Gain	$*h_{FE(1)}$	$V_{CE}=5.0\text{V}$ $I_C=1.0\text{A}$	5000			
	$*h_{FE(2)}$	$V_{CE}=5.0\text{V}$ $I_C=0.5\text{A}$	5000			
	$*h_{FE(3)}$	$V_{CE}=5.0\text{V}$ $I_C=2.0\text{A}$	3000			
Collector to Emitter Saturation Voltage*	$*V_{CE(sat)}$	$I_C=1.0\text{A}$ $I_B=0.1\text{A}$			1.0	V
Base to Emitter On Voltage*	$*V_{BE(on)}$	$V_{CE}=5.0\text{V}$ $I_C=1.0\text{A}$			1.5	V
Transition Frequency	f_T	$V_{CE}=10\text{V}$ $f=1.0\text{MHz}$ $I_C=500\text{mA}$	30			MHz

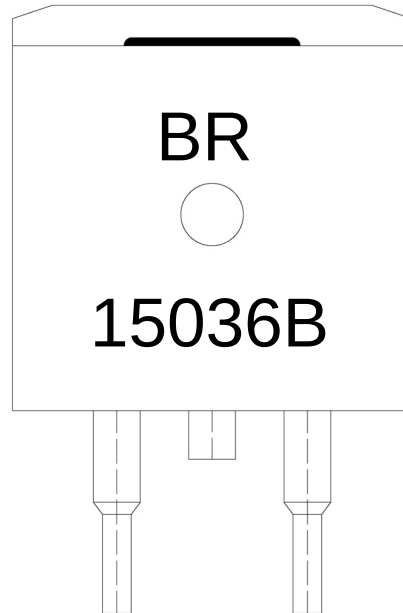
* $\leq 300\mu\text{s}$ $\leq 2\%$ *Pulse Test: Pulse Width 300 μs , Duty Cycle 2%.





单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	4.30	4.70	E	0.00	0.10
B	1.00	1.40	e1	2.34	2.74
b	0.70	0.90	e2	4.88	5.28
b1	1.15	1.35	L1	15.00	16.00
b2	0.40	0.60	L2	0.40	0.60
C	1.20	1.40	L3	1.20	1.60
D	8.00	10.00			



BR

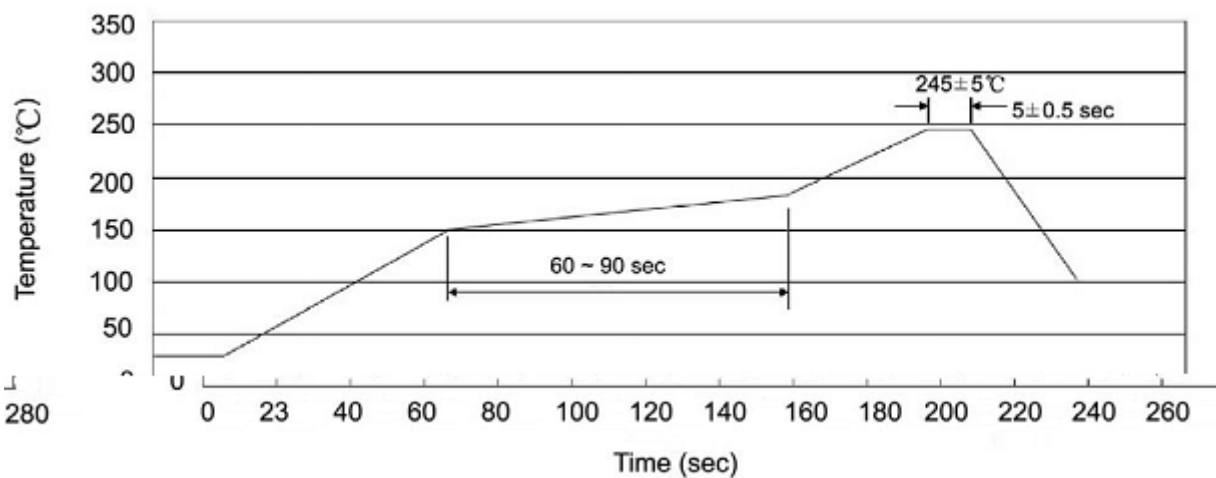
15036B

Note:

BR: Company Code

15036B: Product Type.

****: Lot No. Code, code change with Lot No.



Note:

- | | | | | | |
|---|-------|-----|----|-----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec
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/ REEL

Package Type	Units					Dimension (unit mm ³)		

/ TUBE

Package Type	Units					Dimension (unit mm ³)		