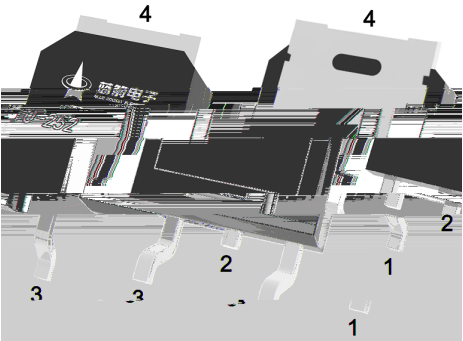
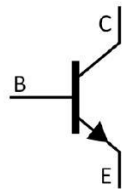


TO-252 NPN Silicon NPN transistor in a TO-252 Plastic Package.

AEC-Q101

High collector-Emitter breakdown voltage, Suitable for transformer, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

High voltage general purpose applications, Meet the stringent requirements of automotive applications.

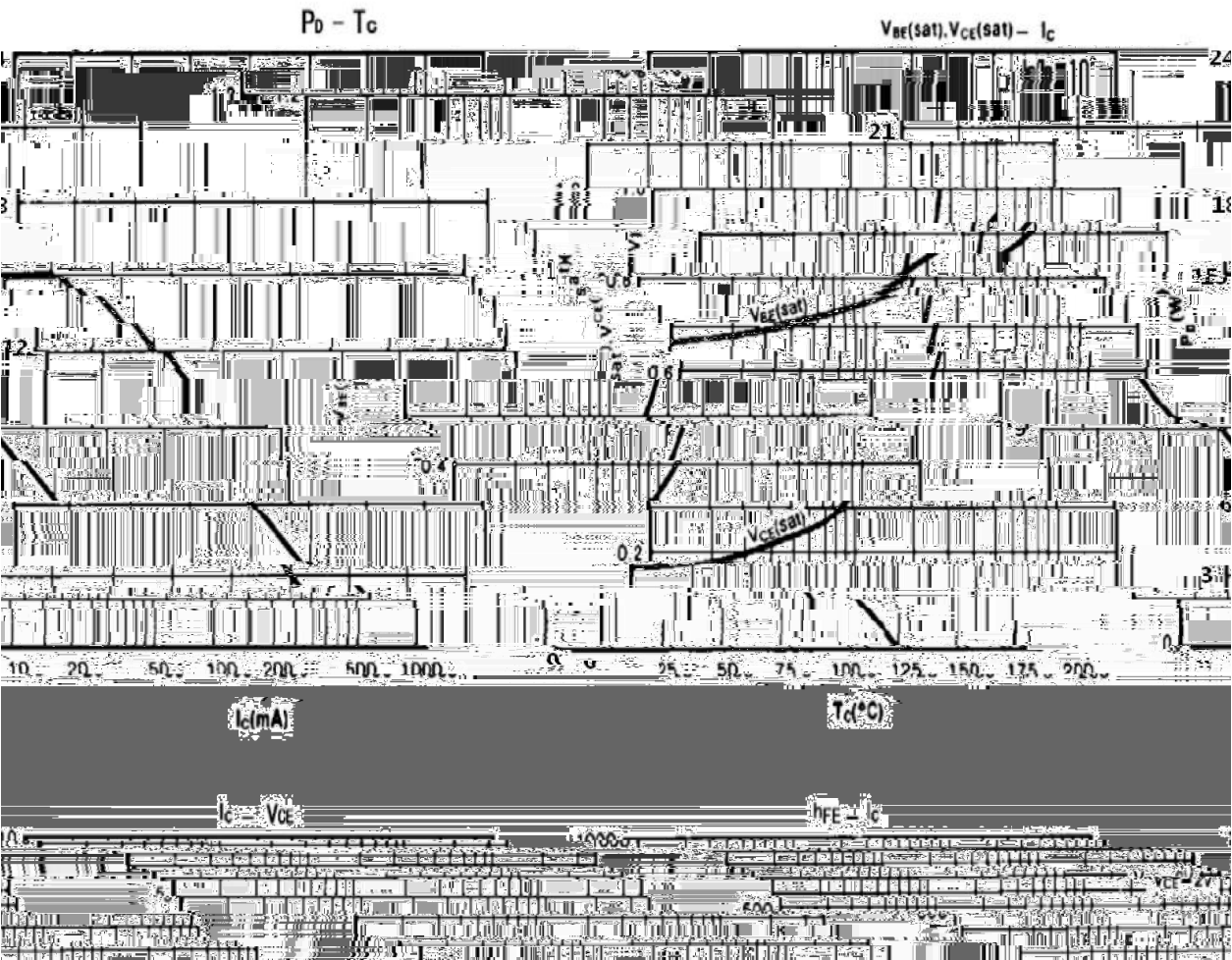


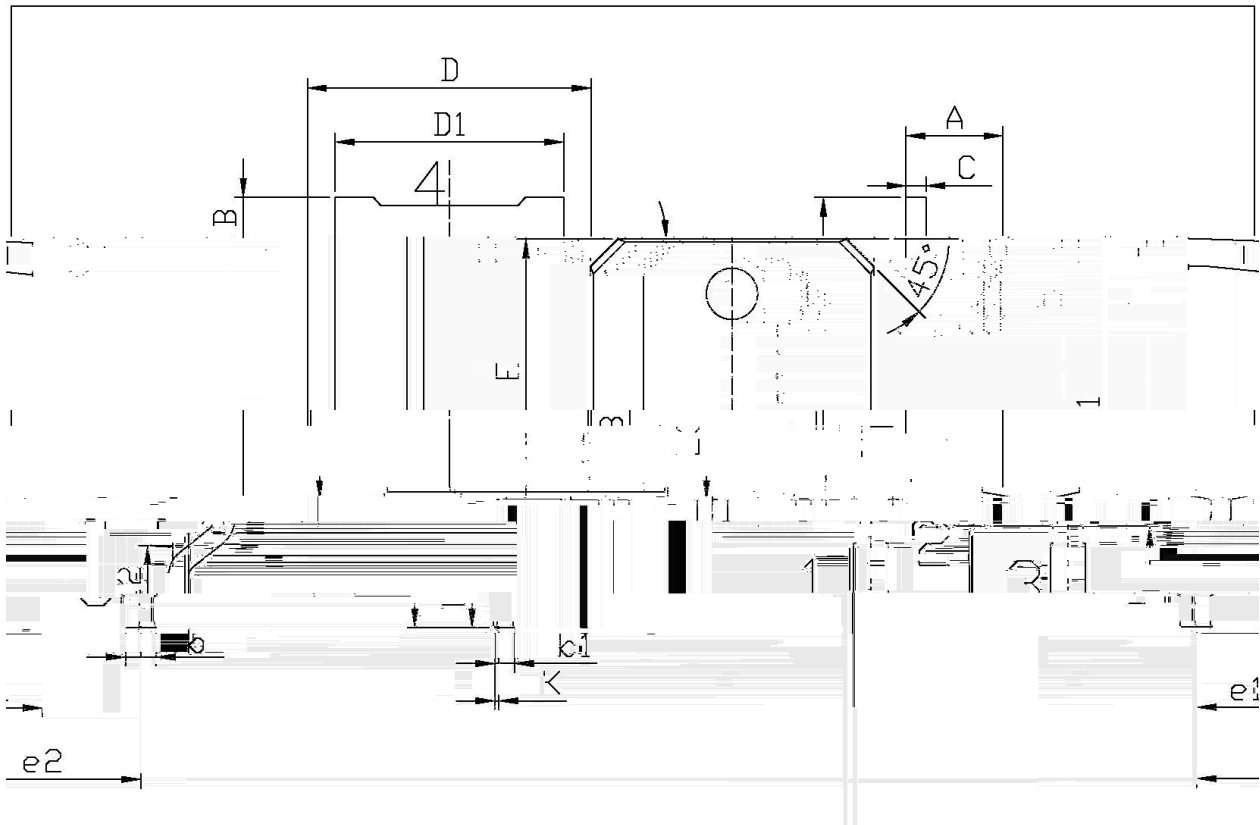
PIN1 Base PIN 2,4 Collector PIN 3 Emitter

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	300	V
Collector to Emitter Voltage	V_{CEO}	300	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	500	mA
Collector Power Dissipation	P_C	1.56	W
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	15	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=0.1\text{mA}$ $I_E=0$	300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0\text{mA}$ $I_B=0$	300			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=0.1\text{mA}$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=300\text{V}$ $I_E=0$			100	μA
Emitter Cut-Off Current	I_{EBO}	$V_{CE}=3\text{V}$ $I_C=0$			100	μA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}$ $I_C=50\text{mA}$	30		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50\text{mA}$ $I_B=5.0\text{mA}$			1.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=50\text{mA}$ $I_B=5.0\text{mA}$			1.2	V

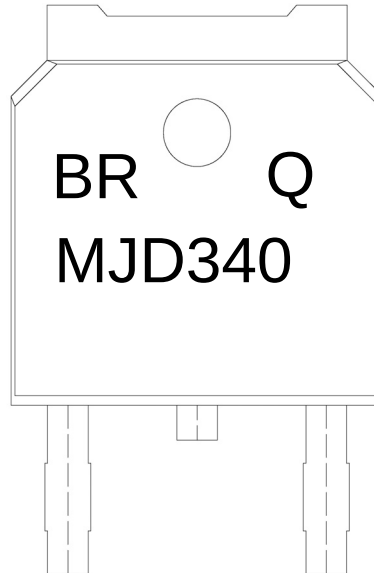




单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	2.20	2.40	E	5.95	6.25
B	0.95	1.25	e1	2.24	2.34
C	0.70	0.90	e2	4.43	4.73
D	6.45	6.75	b1	0.45	0.55
D1	5.10	5.50	L2	1.70	2.00
			L3	0.60	0.90
			K	0.00	0.10

TO-252



BR

Q

MJD340

Note:

BR: Company Code

Q: Automobile halogen-free product Code

MJD340: Product Type

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

Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | | | |
|---|-------|-----|-----------|---------|---|
| 1 | 150 | 200 | 60 | 120sec; | 1.Preheating:150~200 , Time:60~120sec. |
| 2 | 255±5 | | 5±0.5sec; | | 2.Peak Temp.:255±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

/ REEL

Package Type	Units					Dimension (unit mm ³)		
TO-252	2,500	2	5,000	6	30,000	13 ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180