

5 é / Descriptions

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Silicon PNP transistor in a TO-252 Plastic Package.

α<sup>a</sup> / Features

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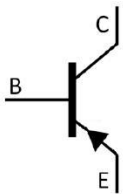
High voltage, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Đ ÷ / Applications

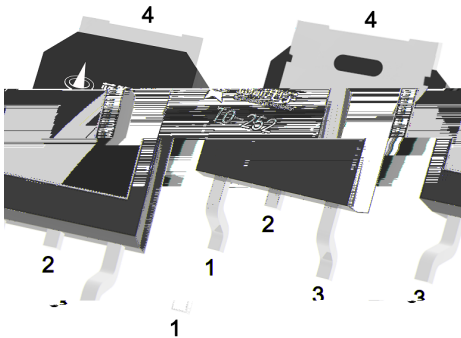
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High voltage general purpose applications, Meet the stringent requirements of automotive applications.

Ã W ] Ô . / Equivalent Circuit



• Ū - æ / Pinning



PIN1 y Base

PIN 2,4 y Collector

PIN 3 y Emitter

Z Ü B , M V / h<sub>FE</sub> Classifications & Marking

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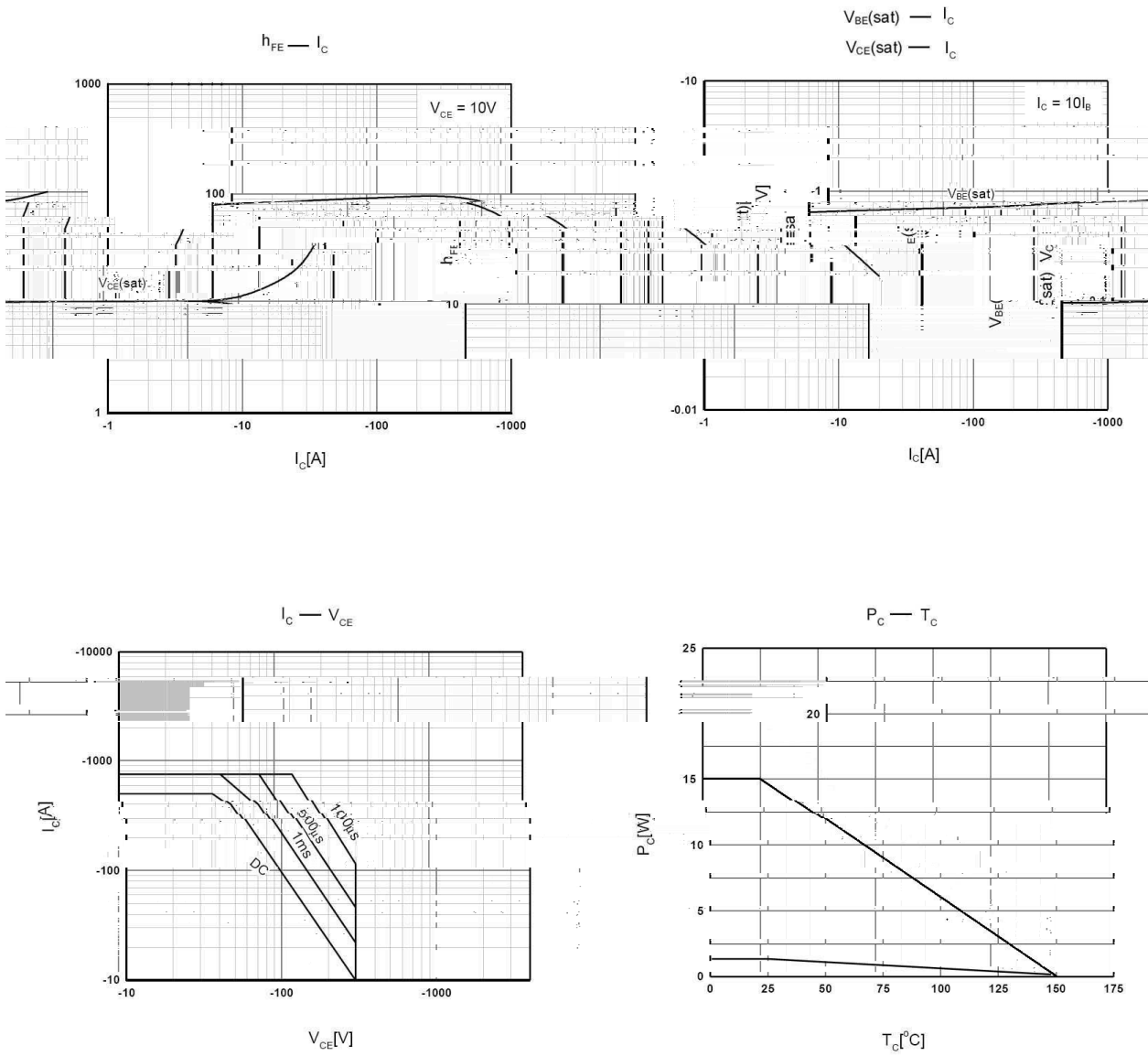
See Marking Instructions.

Table 1 / Absolute Maximum Ratings(Ta=25

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V <sub>CB0</sub>	-300	V
Collector to Emitter Voltage	V <sub>CEO</sub>	-300	V
Emitter to Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current - Continuous	I <sub>C</sub>	-500	mA
Collector Power Dissipation	P <sub>C</sub>	1.56	W
Collector Power Dissipation	P <sub>C</sub> (T <sub>C</sub> =25 )	15	W
Junction Temperature	T <sub>j</sub>	150	
Storage Temperature Range	T <sub>stg</sub>	-55 150	

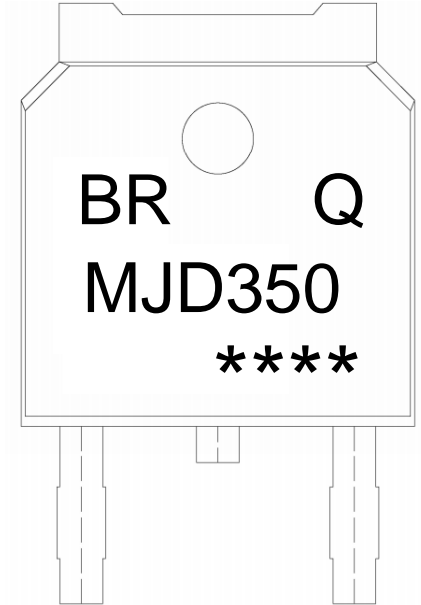
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V <sub>CB0</sub>	I <sub>C</sub> =-0.1mA I <sub>E</sub> =0	-300			V
Collector to Emitter Breakdown Voltage	V <sub>CEO</sub>	I <sub>C</sub> =-1mA I <sub>B</sub> =0	-300			V
Emitter to Base Breakdown Voltage	V <sub>EBO</sub>	I <sub>C</sub> =-0.1mA I <sub>B</sub> =0	-5			V
Collector Cut-Off Current	I <sub>CB0</sub>	V <sub>CB</sub> =-300V I <sub>E</sub> =0			-100	A
Emitter Cut-Off Current	I <sub>EBO</sub>	V <sub>EB</sub> =-3V I <sub>C</sub> =0			-100	A
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =-10V I <sub>C</sub> =-50mA	30		240	

Electrical Characteristic Curve



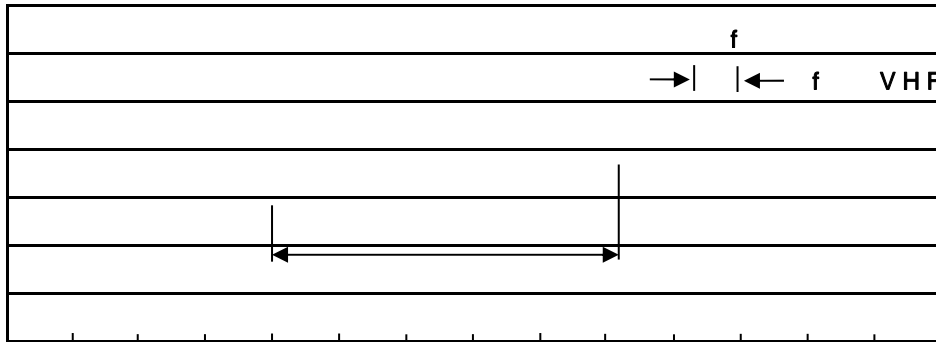


, M y f / Marking Instructions



- <sup>a</sup>  $\phi$  y
  - BR y                   , [ W A
  - Q y                    V ñ —)í D } ö œ
  - 3 0 \*    y        D } ° Z
  - y        ÿ D Z W A k š Ÿ D Z J
- Note:
- BR:                    Company Code
  - Q:                     Automobile halogen-free product Code
  - MJD350:            Product Type
  - \*\*\*\*:                 Lot No. Code, code change with Lot No

šWD t...•Žç (x/ ) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6



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Note:

- 1. Preheating: 150~200 - , Time: 60~120sec.
- 2. Peak Temp.: 255 r5 - , Duration: 5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ » ] / Resistance to Soldering Heat Test Conditions

"†y 260 r5 - ž•y 10 r1 sec. Temp.: 260±5 Time: 10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û iH					Dimension ;>û p . (unit Åmm <sup>3</sup> )		
	Units/Reel / - -	Reels/Inner Box - - / -	Units/Inner Box / -	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
TO-252	2,500	2	5,000	6	30,000	13 s x16	360x360x50	380x335x366

ì' x / TUBE

Package Type 7>û ~ E	Units ;>û iH					Dimension ;>û p . (unit Åmm <sup>3</sup> )		
	Units/Tube /•1x	Tubes/Inner Box •1x / -	Units/Inner Box / -	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Tube•1x	Inner Box	Outer Boxç
TO-251/252	75	48	3,600	5	18,000	526x20.5x5.25	555x164x50	575x290x180

„Đ y f / Notices