

5 é / Descriptions

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Silicon PNP transistor in a TO-252 Plastic Package.

□^a / Features

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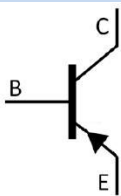
High voltage, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Đ ÷ / Applications

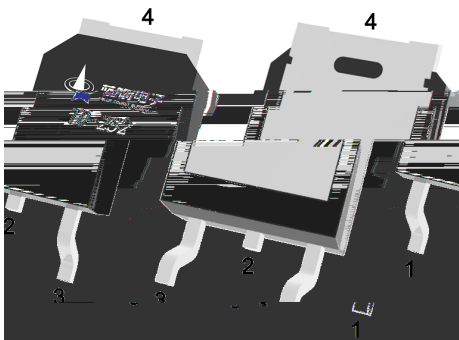
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High voltage general purpose applications, Meet the stringent requirements of automotive applications.

Ã w] Ô · / Equivalent Circuit



• Ů - æ / Pinning



PIN1 y Base

PIN 2,4 y Collector

PIN 3 y Emitter

Z Ü B , M V / h_{FE} Classifications & Marking• - ~^a ¢ož

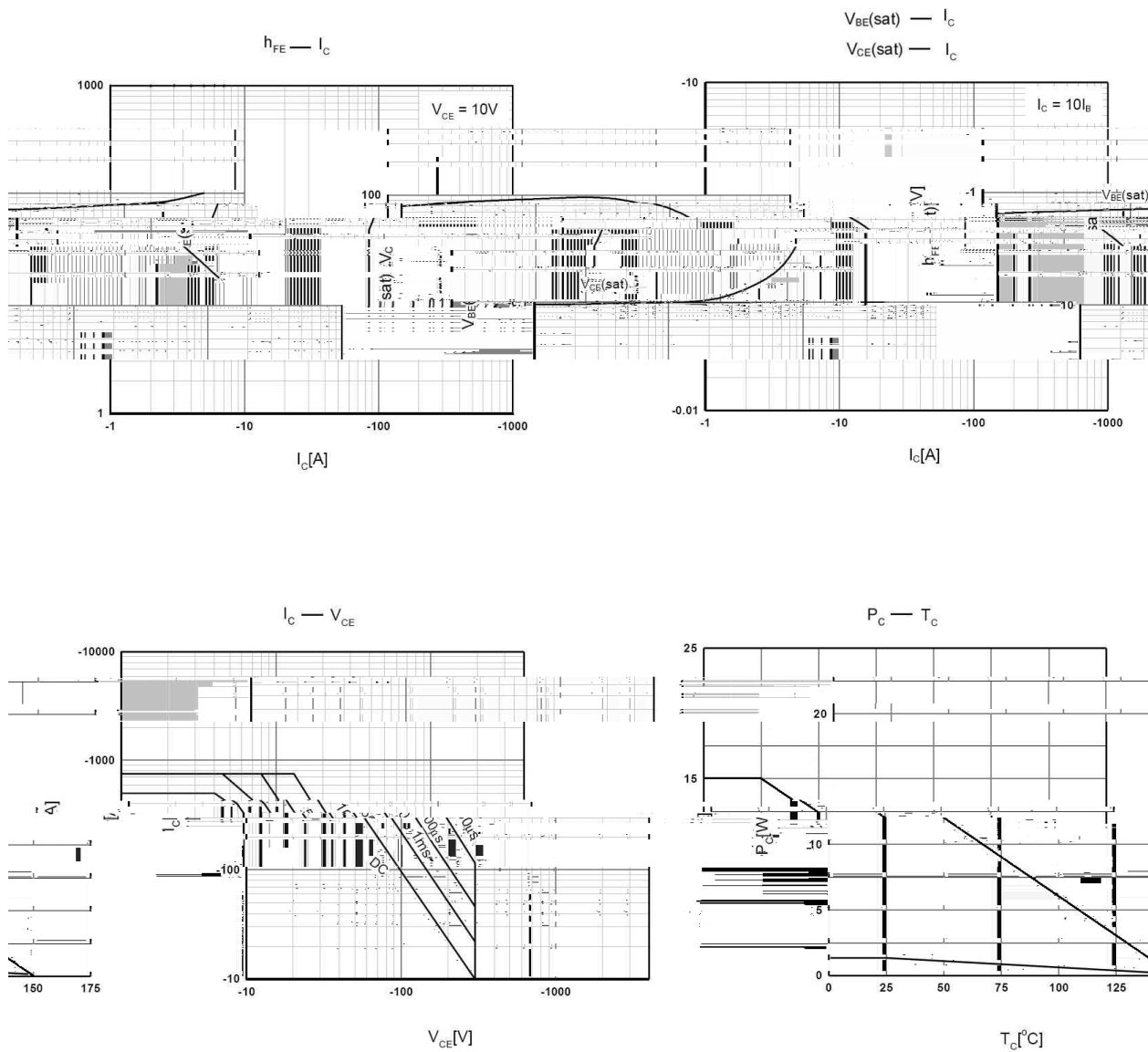
See Marking Instructions.

Table 1 / Absolute Maximum Ratings(Ta=25

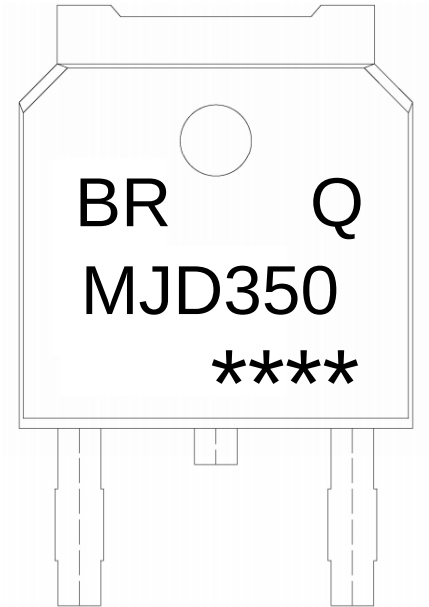
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-300	V
Collector to Emitter Voltage	V_{CEO}	-300	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	1.56	W
Collector Power Dissipation	$P_C(T_C=25^\circ C)$	15	W
Junction Temperature	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}	$I_C=-0.1mA, I_E=0$	-300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1mA, I_B=0$	-300			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_C=-0.1mA, I_B=0$	-5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-300V, I_E=0$			-100	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-3V, I_C=0$			-100	A
DC Current Gain	h_{FE}	$V_{CE}=-10V, I_C=-50mA$	30		240	

Electrical Characteristic Curve

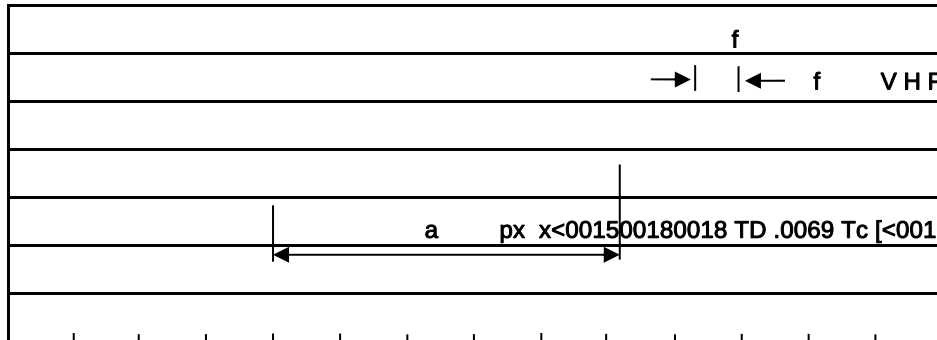


, M y f / Marking Instructions



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BR y	, [W A
Q y	V ñ —) í D } ö œ
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Note:	
BR:	Company Code
Q:	Automobile halogen-free product Code
MJD350:	Product Type
****:	Lot No. Code, code change with Lot No

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



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Note:

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|--|---|
| 10• Ä ½ “† 150 ½200 - k ž • 60 ½120sec; | 1.Preheating:150~200 - , Time:60~120sec. |
| 20• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec; | 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec. |
| 30•D N ò i Ò 0 ,† 2 ½10 - /sec. | 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 H					Dimension ;>û p . (unit /mm³)		
	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 ×16	360×360×50	380×335×366

ì' x / TUBE

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	Units/Tube /•1×	Tubes/Inner Box •1× /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Tube•1×	Inner Box	Outer Boxç
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

„Đ y f / Notices