

BRMJD350Q

Rev.A Oct.-2023

5 é / Descriptions

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Silicon PNP transistor in a TO-252 Plastic Package.

□^a / Features

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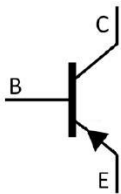
High voltage, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Ð ÷ / Applications

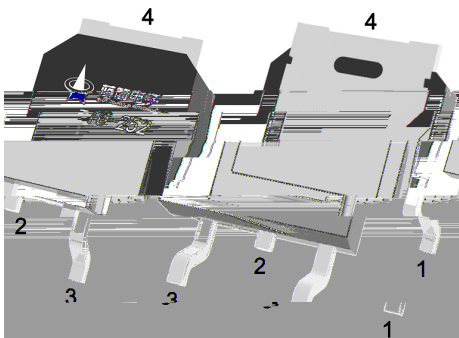
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High voltage general purpose applications, Meet the stringent requirements of automotive applications.

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

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See Marking Instructions.

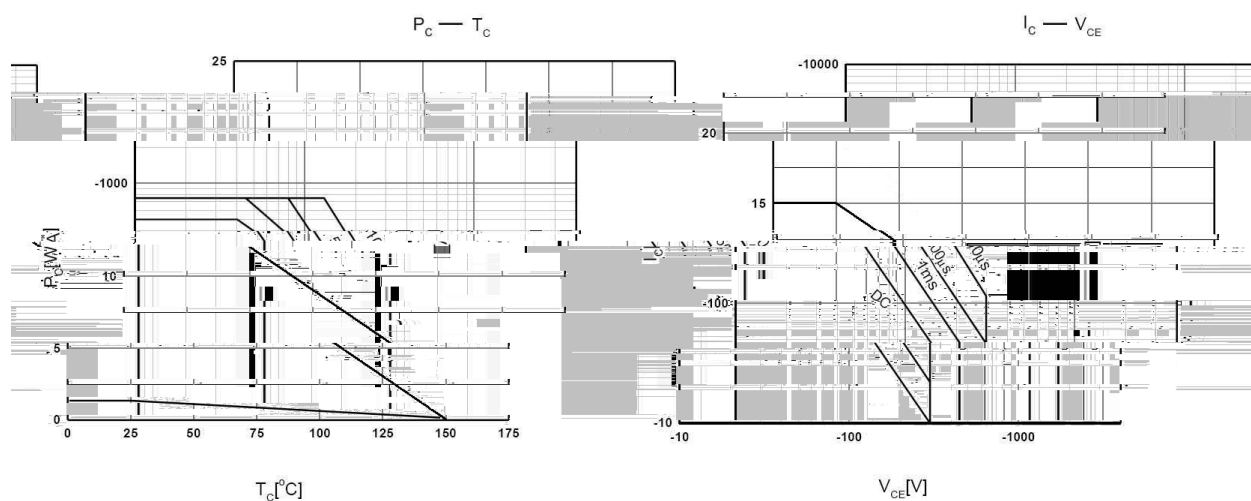
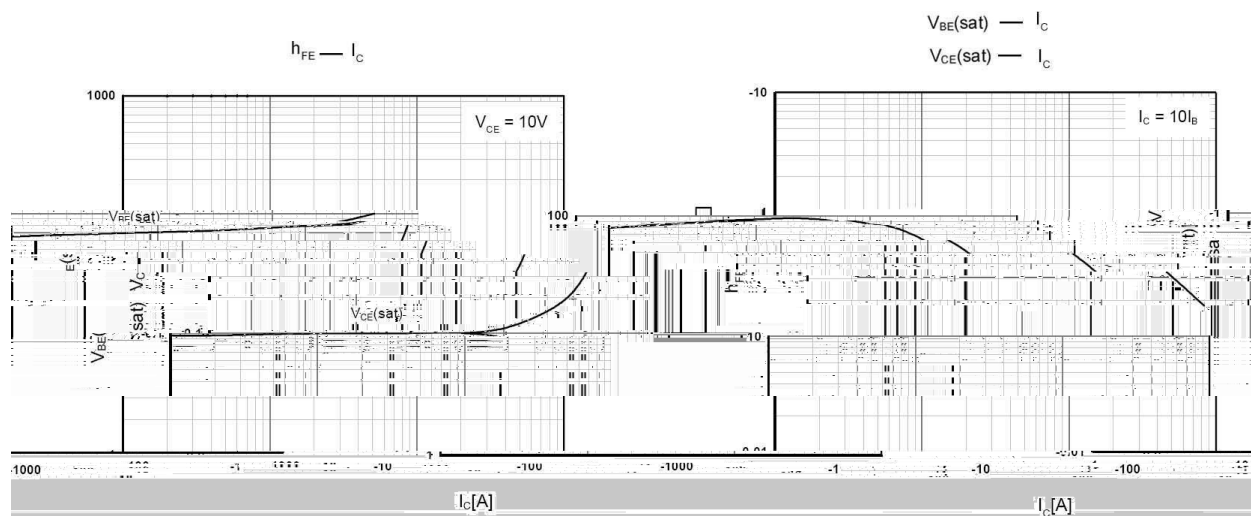
Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

@ f Parameter	... Z Symbol	f > Rating	% y 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)	15	W
Junction Temperature	T _j	150	
Storage Temperature Range	T _{stg}	-55 150	

Ô4ì × ? d / Electrical Characteristics(Ta=25 ;)

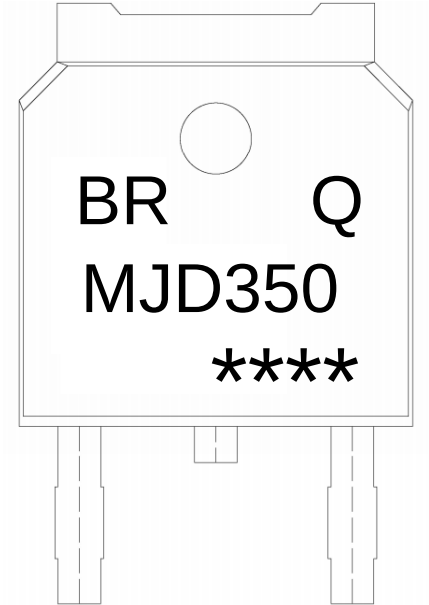
@ f Parameter	... Z Symbol	y ÿ Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Collector to Base Breakdown Voltage	V _{CBO}	I _C =-0.1mA I _E =0	-300			V
Collector to Emitter Breakdown Voltage	V _{CEO}	I _C =-1mA I _B =0	-300			V
Emitter to Base Breakdown Voltage	V _{EBO}	I _C =-0.1mA I _B =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



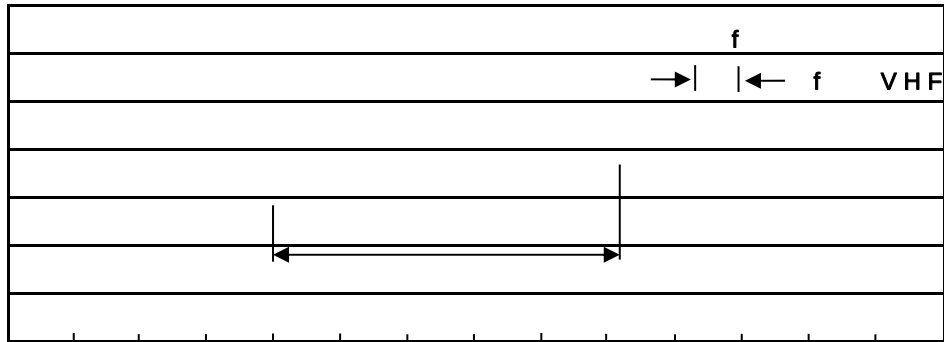


, M y f / Marking Instructions



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BR y	, [W A
Q y	V ñ —) í D } ö œ
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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...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6



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Note:

- 10•Ä½“† 150½200 - kž• 60½120sec; 1.Preheating:150~200 - , Time:60~120sec.
20•Q>“† 255 r5 - kž•4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
30•D Nò i Ò 0 ,† 2½10 - /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