

/ Descriptions

TO-252

Schottky Barrier Diode in a TO-252 Plastic Package.

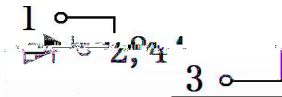
/ Features

High Forward Surge Capability, Ultra Low Forward Voltage Drop, Excellent High Temperature Stability.

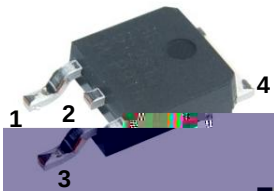
/ Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit



/ Pinning



PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

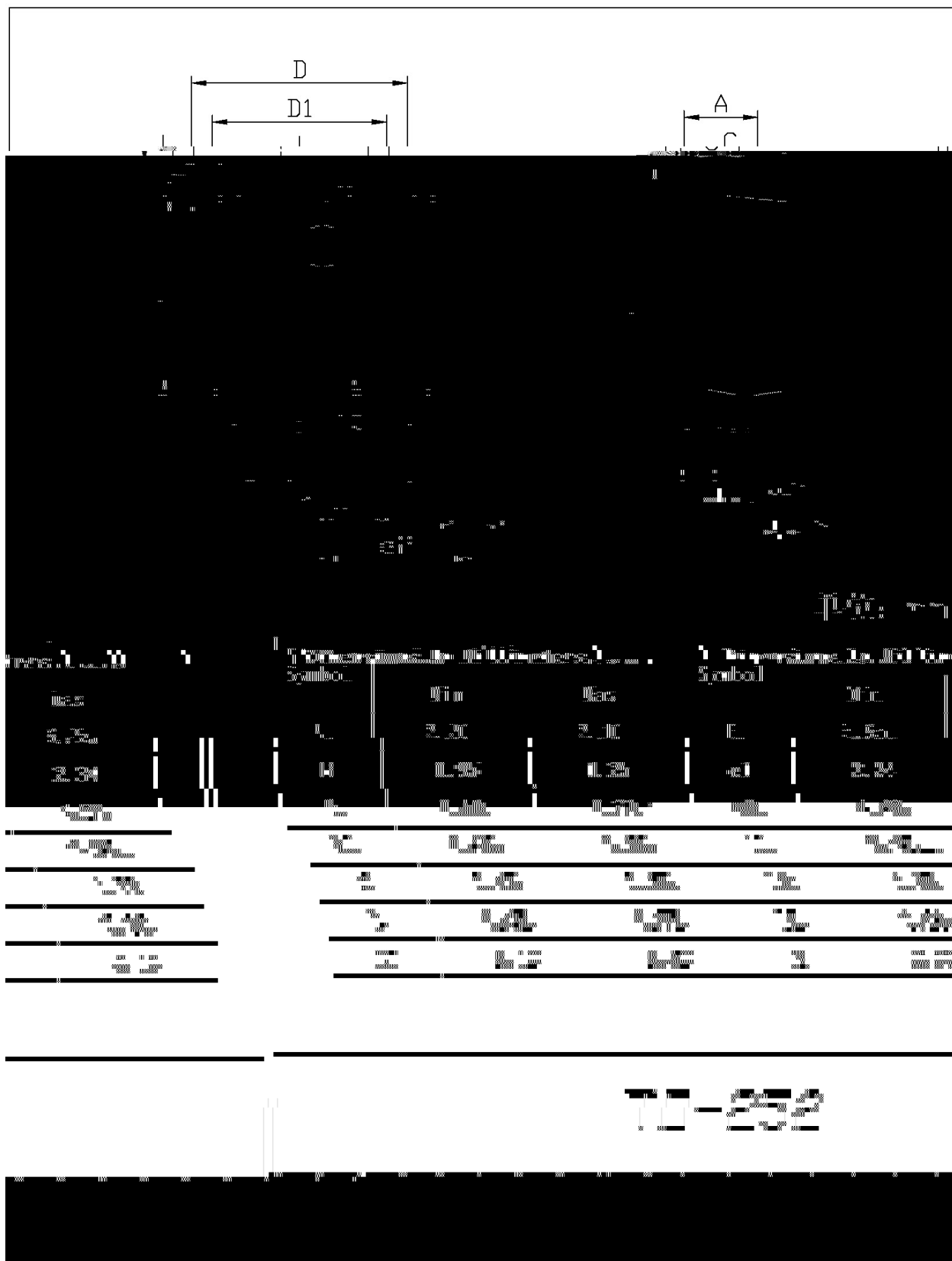
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Junction Temperature Range	$T_{J\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=0.3mA$	200			V
Forward Voltage	V_F	$I_F=2A$ $T_J=25$		0.68	0.75	V
		$I_F=2A$ $T_J=125$		0.53	0.58	V
		$I_F=10A$ $T_J=25$		0.87	0.95	V
		$I_F=10A$ $T_J=125$		0.70	0.75	V
Instantaneous Reverse Current	I_R Note 1	$V_R=200V$ $T_J=25$		4	20	μA
		$V_R=150V$ $T_J=125$		1.9	5	mA
		$V_R=200V$ $T_J=125$		3.5	10	mA

/Notes

1. /Short duration pulse test used to minimize self-heating effect.

/ Package Dimensions



/ Marking Instructions



BR

10200

LV

Note:

BR:

10200

LV

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TBR

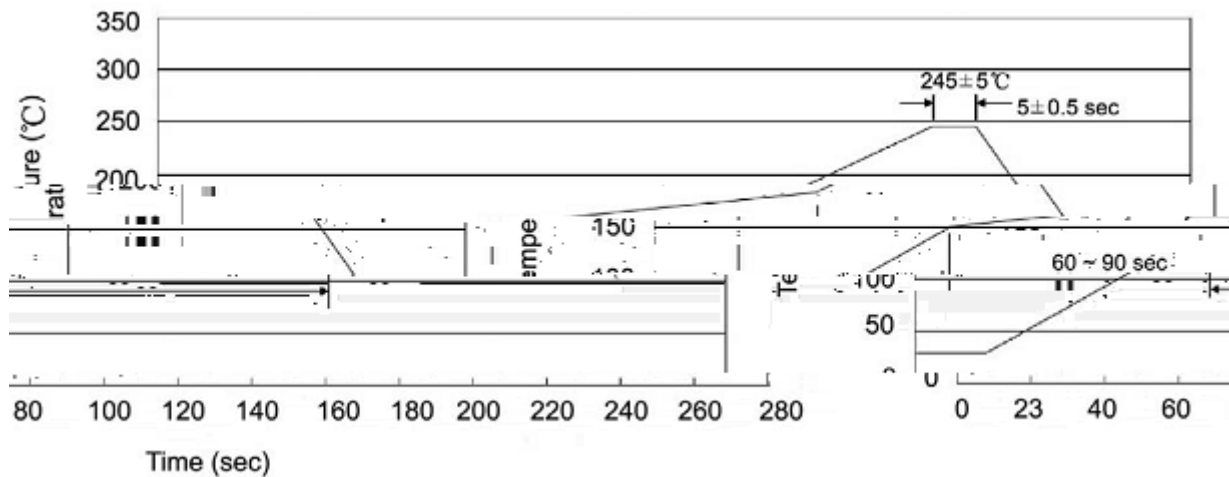
Company Code

Product Type Code.

TBR Process.

Lot No. Code, code change with Lot No.

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm ³)
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