

/ Descriptions

TO-252

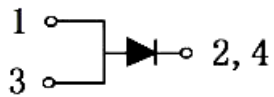
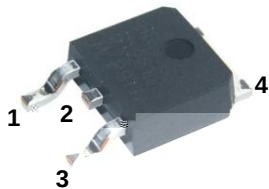
Schottky diode in a TO-252 Plastic Package.

/ Features

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

/ Applications

For Switching power supply, Converters, Free-Wheeling diodes, and Reverse battery protection.

/ Equivalent Circuit**/ Pinning**

PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

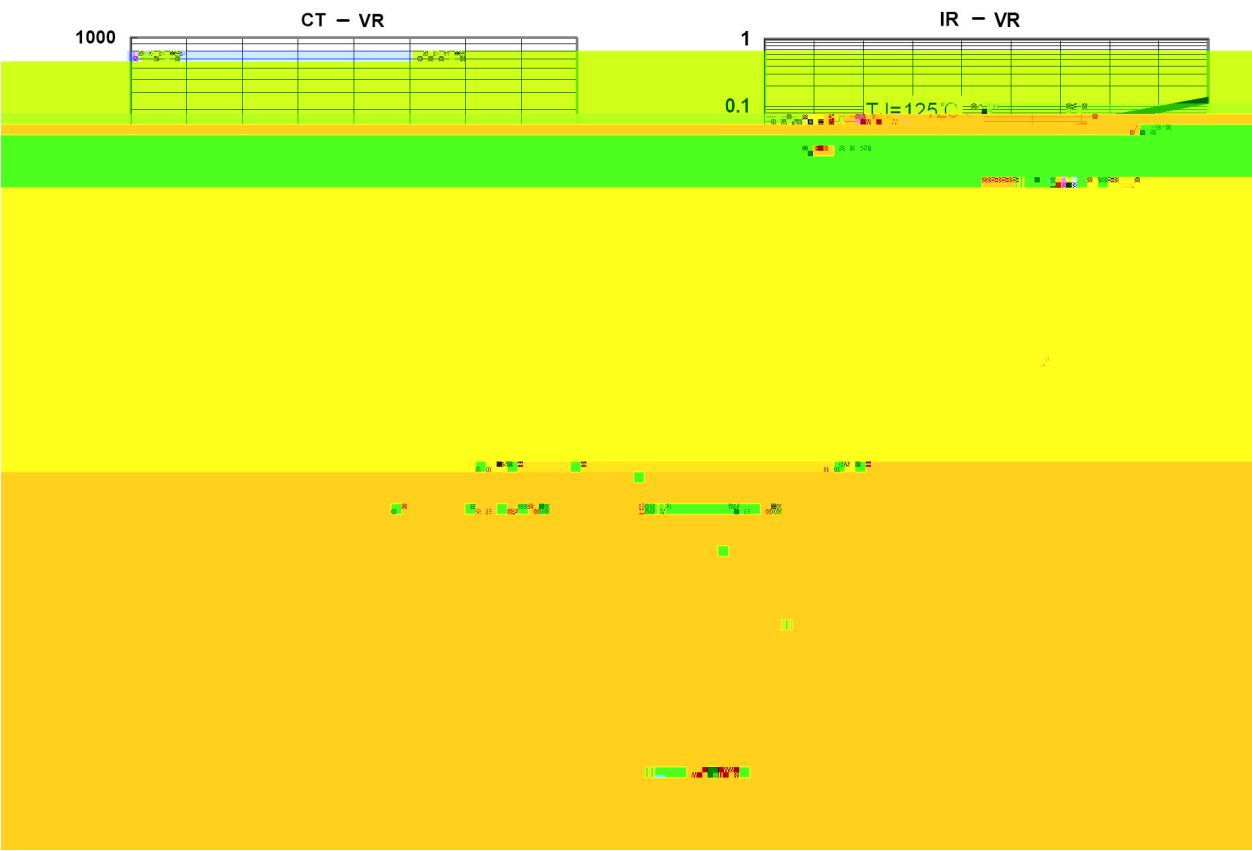
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current (50% duty cycle @ $T_C = 105^{\circ}\text{C}$)	$I_{F(AV)}$	5.0	A
Non Repetitive Peak Surge Current	I_{FSM}	120	A
Junction Temperature Range	T_j	-55~150	
Storage Temperature Range	T_{stg}	-55~150	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	25	/W

/ Electrical Characteristics(Ta=25)

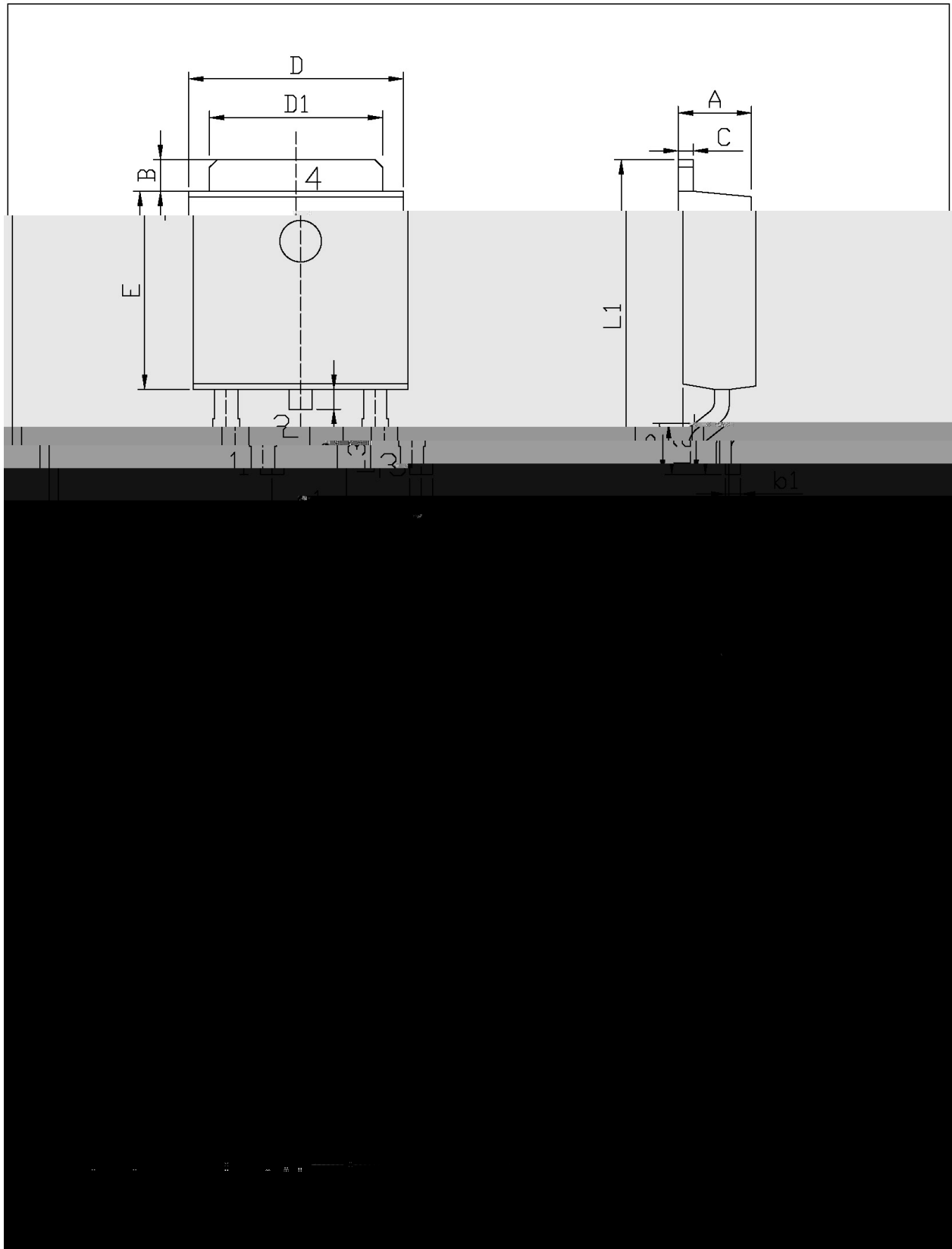
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=5\text{A}$ $T_j=25^{\circ}\text{C}$			0.85	V
		$I_F=5\text{A}$ $T_j=125^{\circ}\text{C}$			0.70	V
Instantaneous Reverse Current	I_R	$V_R=100\text{V}$ $T_j=25^{\circ}\text{C}$			1.0	mA
		$V_R=100\text{V}$ $T_j=125^{\circ}\text{C}$			10	mA

*Pulse Width < 300 μs , Duty Cycle <2%

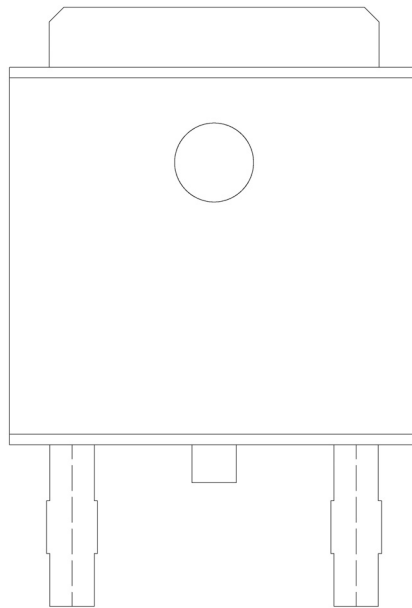
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions

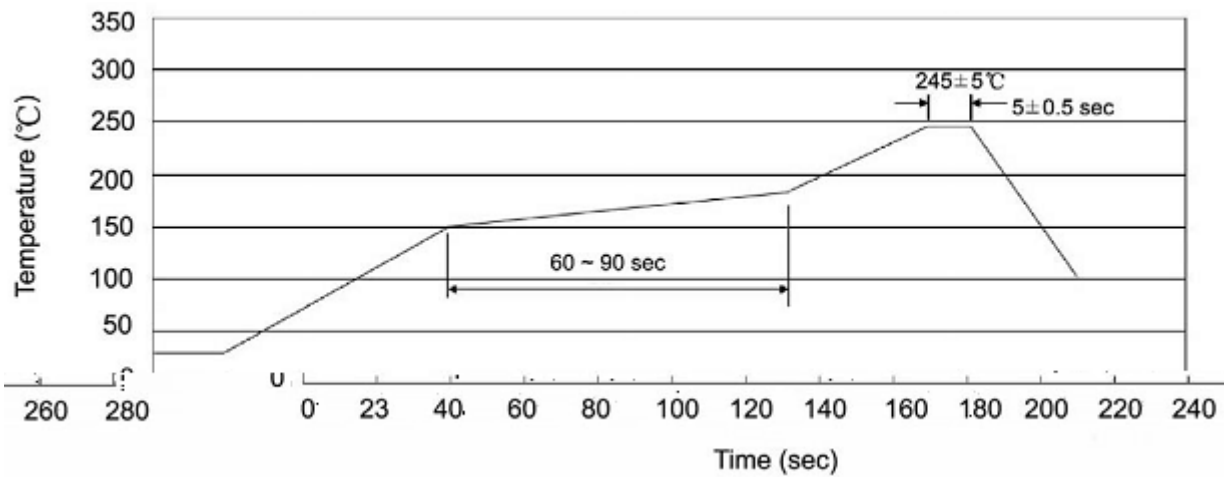


BR
5100

Note:

BR: Company Code
5100

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Note:

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|---|-------|-----|-----------|--------|---|
| 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
						"		

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ Notices