/ 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.

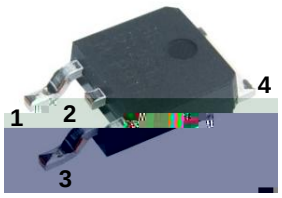
/ Applications

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	$I_{F(AV)}$	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=5A T_J=25			0.85	V
		I_F=5A T_J=125			0.70	V
Instantaneous Reverse Current	I_R	V_R=100V T_J=25			1.0	mA
		V_R=100V T_J=125			10	mA

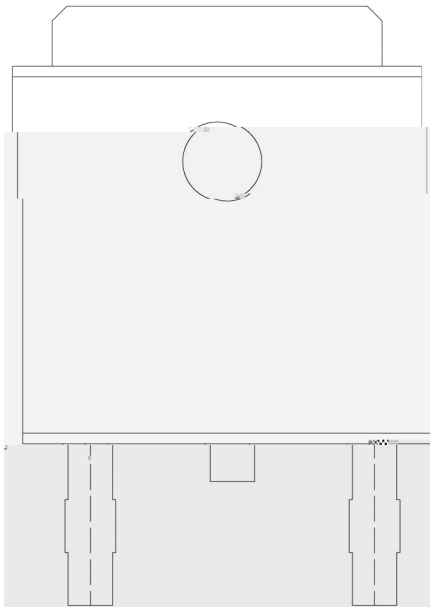
*Pulse Width < 300μs, Duty Cycle <2%

/ Package Dimensions





/ Marking Instructions



BR

5100

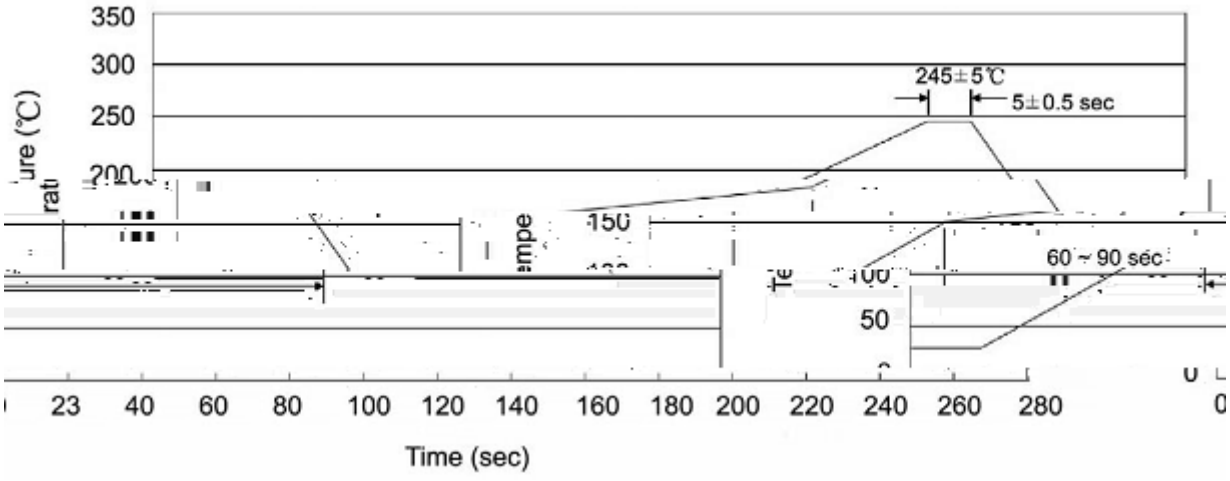
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Note:

BR: Company Code

5100

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



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