

/ Descriptions

Schottky Diode in a TO-252 Plastic Package.

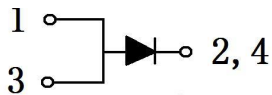
/ Features

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

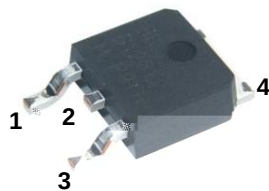
/ Applications

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($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RM} V_{RSM} V_{DC}	100	V
RMS Reverse Voltage	V_{RMS}	70	V
Average forward rectified current	$I_{F(AV)}$	1×10	A
Non Repetitive Peak Surge Current	I_{FSM}	200	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0	/W
Junction and Storage Temperature Range	T_j T_{stg}	-55 +150	

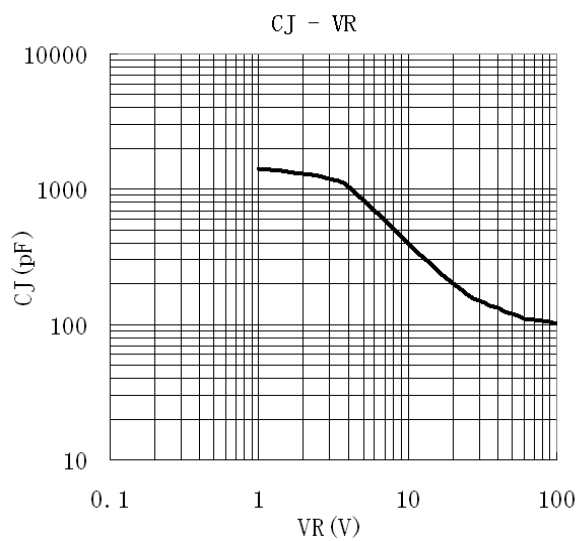
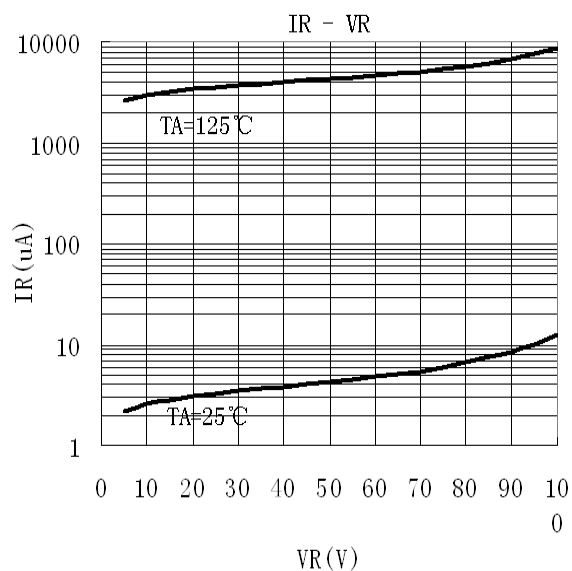
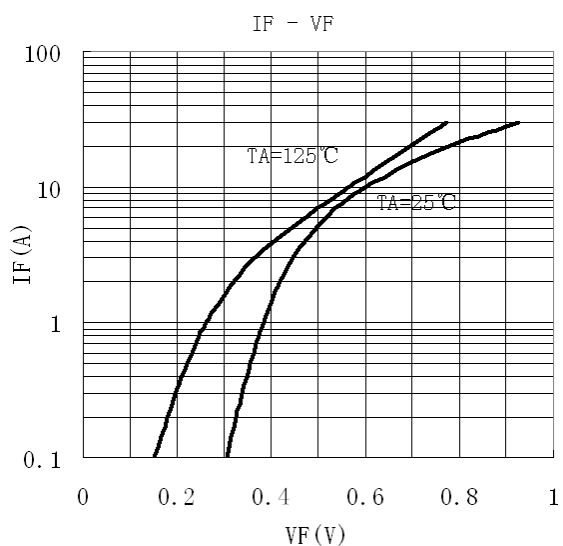
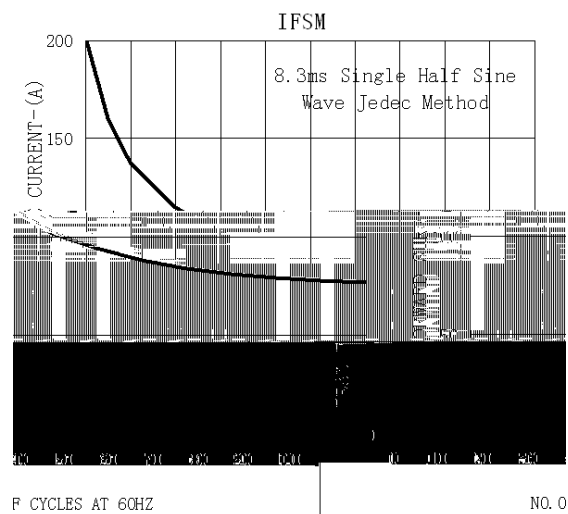
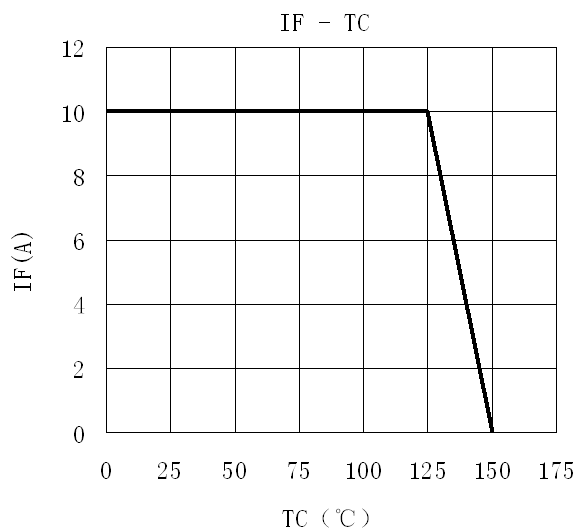
/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R=1\text{mA}(T_a=25^\circ\text{C})$	100			V
Forward Voltage	V_F	$I_F=2\text{A}(T_a=25^\circ\text{C})$		0.41	0.45	V
		$I_F=10\text{A}(T_a=25^\circ\text{C})$		0.58	0.65	V
		$I_F=2\text{A}(T_a=125^\circ\text{C})$		0.31	0.40	V
		$I_F=10\text{A}(T_a=125^\circ\text{C})$		0.55	0.65	V
Instantaneous Reverse Current	I_R Note 1	$V_R=100\text{V}(T_a=25^\circ\text{C})$			150	μA
		$V_R=100\text{V}(T_a=125^\circ\text{C})$			25	mA

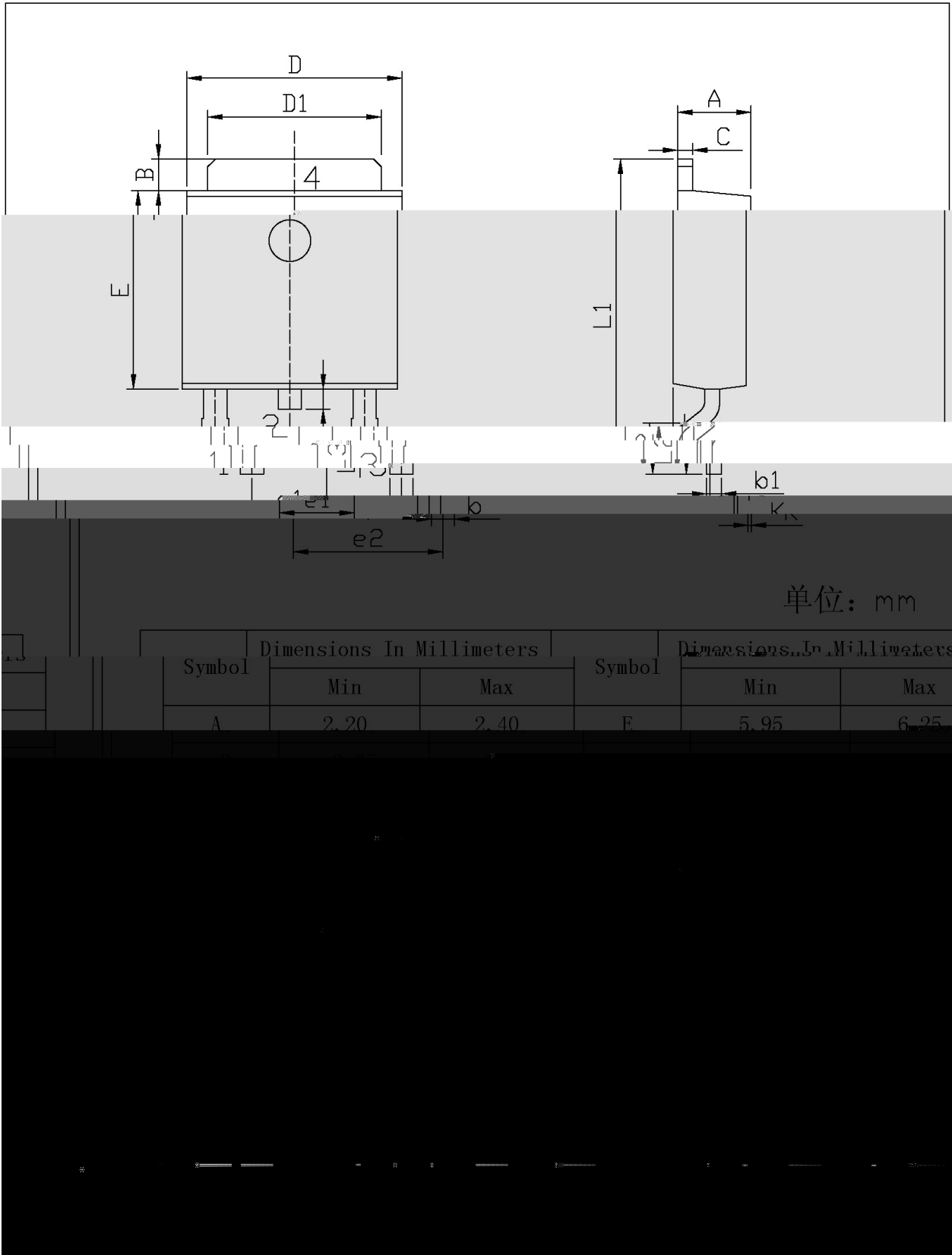
Short duration pulse test used to minimize self-heating effect.

Unless otherwise noted, values for the parameters of a single chip

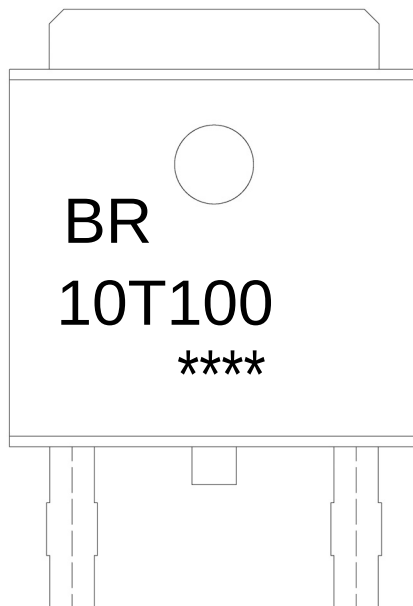
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



Note:

BR:

Company Code

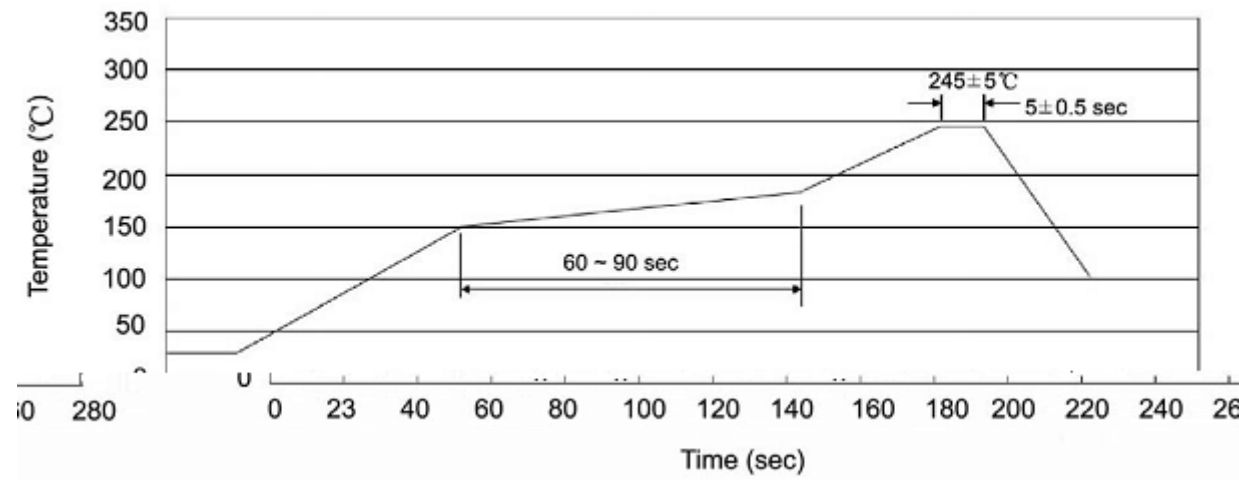
10T100

Product Type Code.

****:

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. |