

/ Descriptions

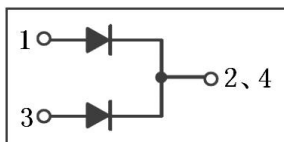
Schottky Diode in a TO-263F Plastic Package.

/ Features

Low forward voltage drop, low power losses, High efficiency operation.

/ Applications

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters 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
Recurrent Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RM} V_{RSM} V_{DC}	150	V
RMS Voltage	V_{RMS}	105	V
Average Rectified Forward Current	$I_{F(AV)}$	2×10	A
Non Repetitive Peak Surge Current	I_{FSM}	120	A
Thermal Resistance Junction to Case	R_{JC}	5.0	/W
Junction and Storage Temperature Range	T_j T_{stg}	-55 +150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	$I_R=1mA(Ta=25)$	150			V
Forward Voltage	V_F	$I_F=5A(Ta=25)$		0.74		V
		$I_F=10A(Ta=25)$		0.84	0.95	V
		$I_F=5A(Ta=125)$		0.59		V
		$I_F=10A(Ta=125)$		0.69	0.75	V
Instantaneous Reverse Current	I_R Note 1	$V_R=150V(Ta=25)$			50	A
		$V_R=150V(Ta=125)$		3.0	10	mA

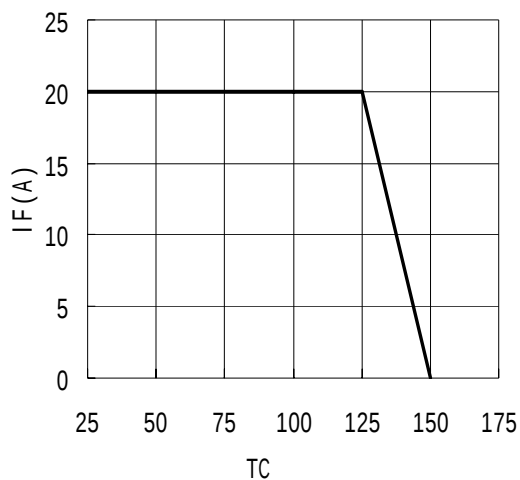
Short duration pulse test used to minimize self-heating effect.

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

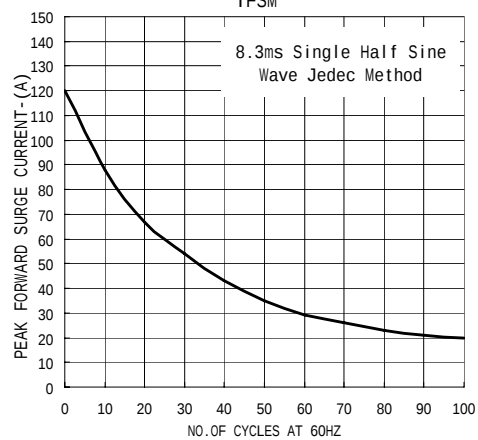


/ Electrical Characteristic Curve

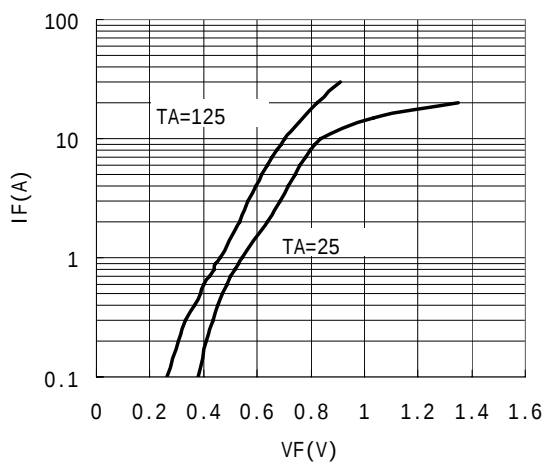
IF - TC



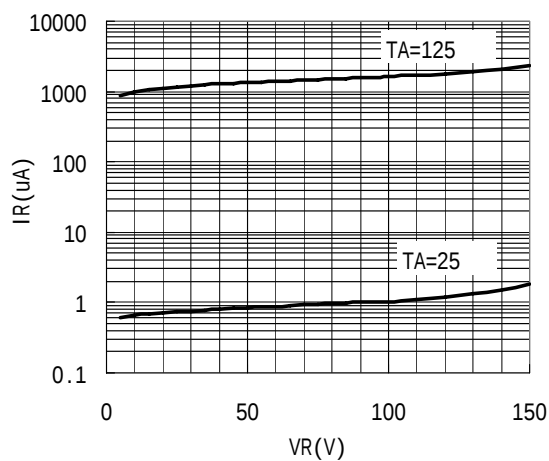
IFSM



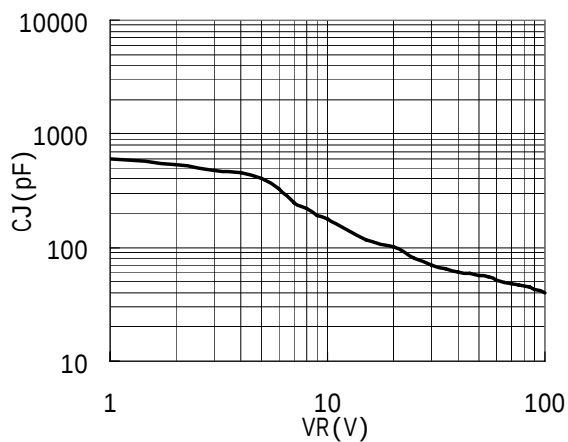
IF - VF



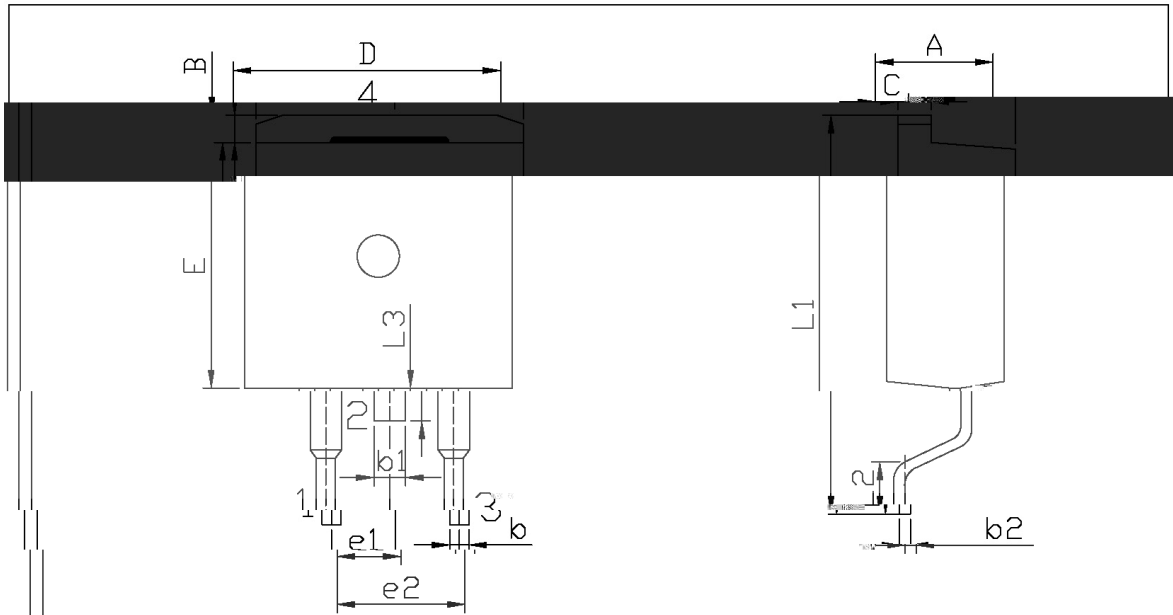
IR - VR



CJ - VR



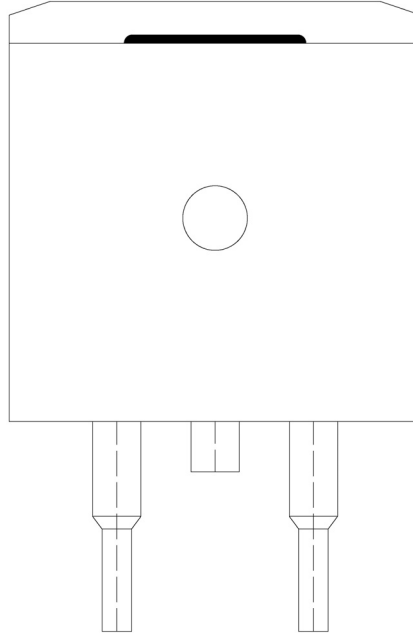
I Package Dimensions



单位: mm

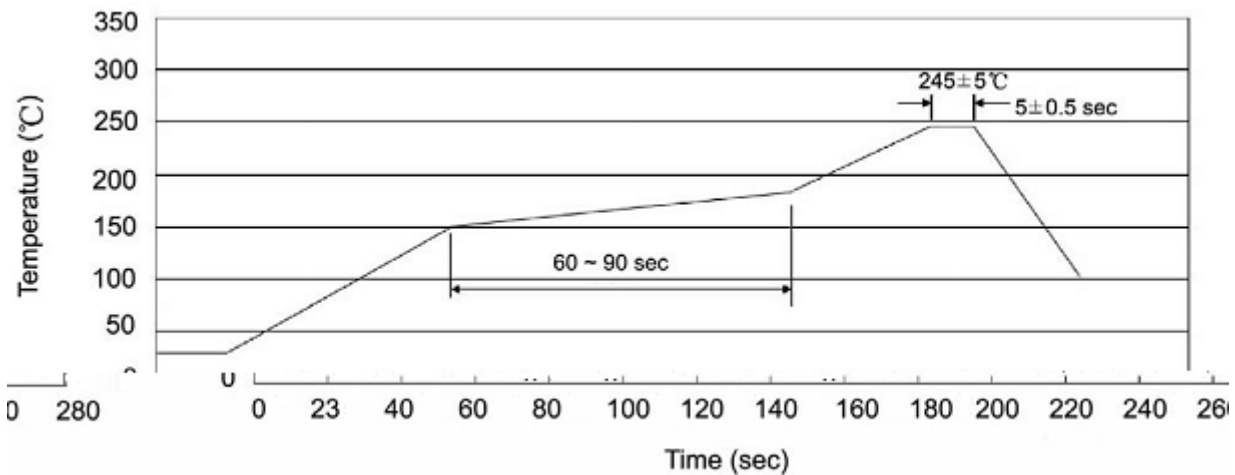
Symbol		Dimensions In Millimeters		Symbol		Dimensions In Millimeter	
		Min	Max			Min	Max
A		4.30	4.70	E		9.00	9.40
B		1.00	1.40	e1		2.34	2.74

/ Marking Instructions





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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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-263	800	1	800	5	4,000	13 ×24	360×360×50	385×257×392

/ TUBE

Package Type 封装形式	Units 包装数量				Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box				