

用途: 用于高频率逆变器, 开关电源, 续流二极管, OR-ing 二极管, DC-DC 转换器和电池反向保护。

Purpose: For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

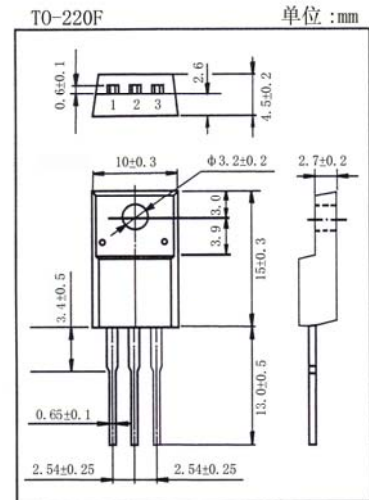
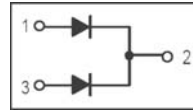
特点: 低正向压降, 低功耗损失, 高效率运行。

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

极限参数/Absolute maximum ratings per leg ($T_a=25^\circ\text{C}$)

参数符号 Symbol	数值 Rating	单位 Unit
V_{RM} , V_{RSM} , V_{DC}	150	V
V_{RMS}	105	V
$I_{F(AV)}$	2×5	A
I_{FSM}	80	A
$R_{\theta Jc}$	4	$^\circ\text{C}/\text{W}$
T_j T_{stg}	$-55 \sim +150$	$^\circ\text{C}$

等效电路



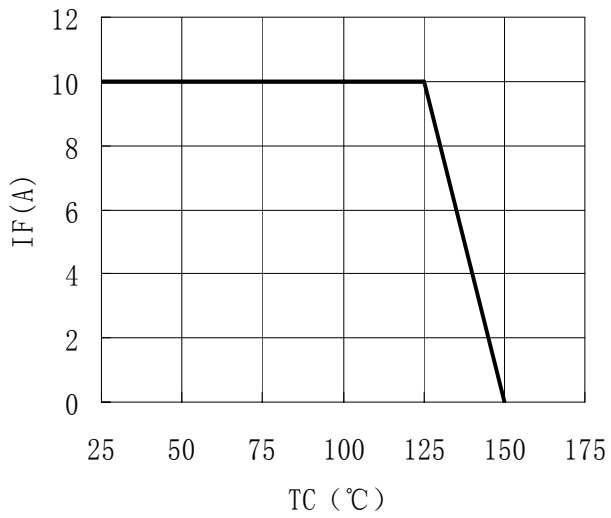
电性能参数/Electrical characteristics per leg ($T_a=25^\circ\text{C}$)

参数符号 Symbol	测试条件 Test condition	数值 Rating			单位 Unit
		最小值 Min	典型值 Typ	最大值 Max	
V_{BR}	$I_R=1\text{mA}$ ($T_a=25^\circ\text{C}$)	150			V
V_F	$I_F=3\text{A}$ ($T_a=25^\circ\text{C}$)		0.76	0.83	V
	$I_F=5\text{A}$ ($T_a=25^\circ\text{C}$)		0.86	0.95	V
	$I_F=3\text{A}$ ($T_a=125^\circ\text{C}$)		0.61		V
	$I_F=5\text{A}$ ($T_a=125^\circ\text{C}$)		0.67	0.75	V
I_R (Note 1)	$V_R=150\text{V}$ ($T_a=25^\circ\text{C}$)			15	μA
	$V_R=150\text{V}$ ($T_a=125^\circ\text{C}$)		1	5	mA

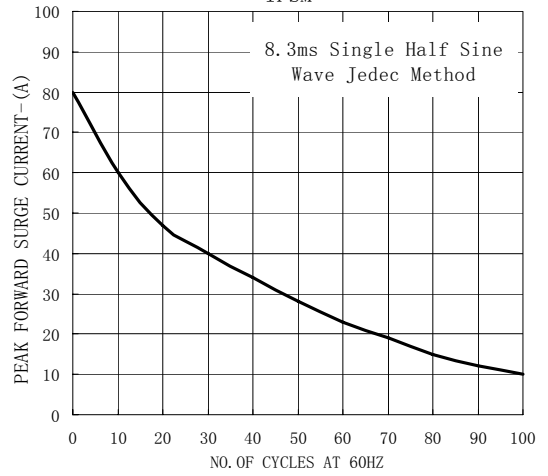
注/Notes:

- 使用极短的测试时间, 以尽量减少自热效应。/Short duration pulse test used to minimize self-heating effect.
- 除非特别注明, 数值为一个芯片的参数。/ Unless otherwise noted, values for the parameters of a single chip

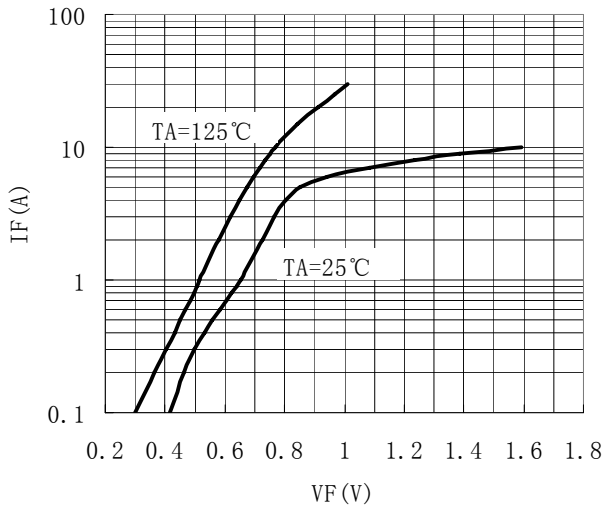
IF - TC



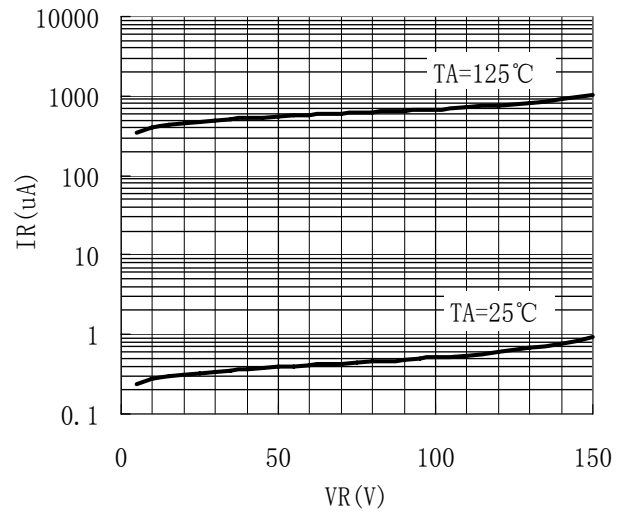
IFSM



IF - VF



IR - VR



CJ - VR

