



HBR2100

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	2A
V_{RRM}	100 V
T_j	175 °C
$V_{F(max)}$	0.72V (@ $T_j=125^{\circ}C$)

用途

- 低压、高频整流
- 低压续流电路和保护电路

APPLICATIONS

- Low voltage, high frequency rectifier
- Free wheeling diodes, polarity protection applications

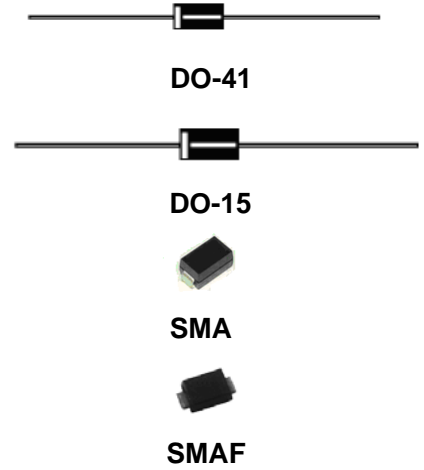
产品特性

- 轴向、贴片结构
- 低功耗，高效率
- 良好的高温特性
- 有过压保护环，高可靠性
- 环保（RoHS）产品

FEATURES

- Axial Lead & SMD Rectifier
- Low power loss, high efficiency
- High Operating Junction Temperature
- Guard ring for overvoltage protection, High reliability
- RoHS product

封装 Package



订货信息 ORDER MESSAGE

订货型号 Order codes	印记 Marking	封装 Package	无卤素 Halogen Free	包装 Packaging	器件重量 Device Weight
HBR2100Y	HBR2100	DO-41	否 NO	编带 Tape	0.28g(approx.)
HBR2100YQ	HBR2100	DO-41	是 YES	编带 Tape	0.28g(approx.)
HBR2100Q	HBR2100	DO-15	否 NO	编带 Tape	0.33g(approx.)
HBR2100QR	HBR2100	DO-15	是 YES	编带 Tape	0.33g(approx.)
HBR2100X	HBR2100	SMA	否 NO	编带 Tape	0.071g(approx.)
HBR2100XR	HBR2100	SMA	是 YES	编带 Tape	0.071g(approx.)
HBR2100XF	HBR2100	SMAF	否 NO	编带 Tape	0.071g(approx.)
HBR2100XFR	HBR2100	SMAF	是 YES	编带 Tape	0.071g(approx.)



**绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)**

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Repetitive peak reverse voltage	V _{RRM}	100	V
最大直流阻断电压 Maximum DC blocking voltage	V _{DC}	100	V
正向平均整流电流T _C =125℃ Average Rectified Forward Current	I _{F(AV)}	2	A
正向峰值浪涌电流 Surge non repetitive forward current (额定负载 8.3ms 半正弦波—按 JEDEC 方法) 8.3 ms single half-sine-wave (JEDEC Method)	I _{FSM}	50	A
最高结温 Maximum junction temperature	T _j	175	℃
储存温度 Storage temperature range	T _{STG}	-40~+150	℃

电特性 ELECTRICAL CHARACTERISTICS

项 目 Parameter	测试条件 Tests conditions		最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
I _R	T _j =25℃	V _R =V _{RRM}			10	μA
	T _j =125℃				5	mA
V _F	T _j =25℃	I _F =2A		0.80	0.85	V
	T _j =125℃			0.68	0.72	V

热特性 THERMAL CHARACTERISTICS

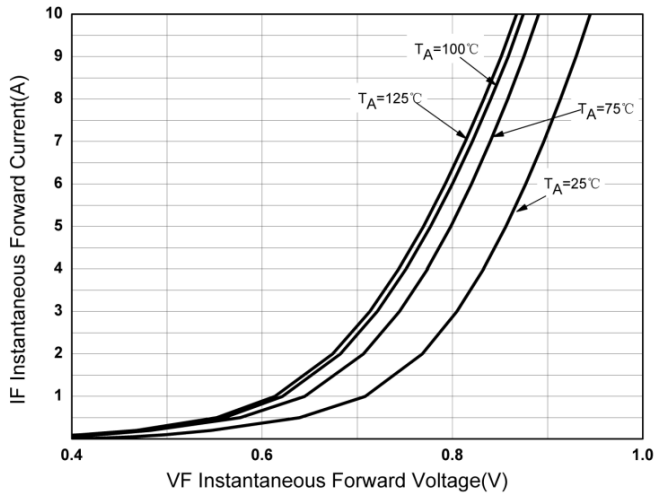
项 目 Parameter		符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 Thermal resistance from junction to ambient	DO-41	R _{th(j-a)}		100	℃/W
	DO-15			85	
	SMA/SMAF			150	
结到管壳的热阻 Thermal resistance from junction to case	DO-41	R _{th(j-c)}		50	℃/W
	DO-15			40	
	SMA/SMAF			50	



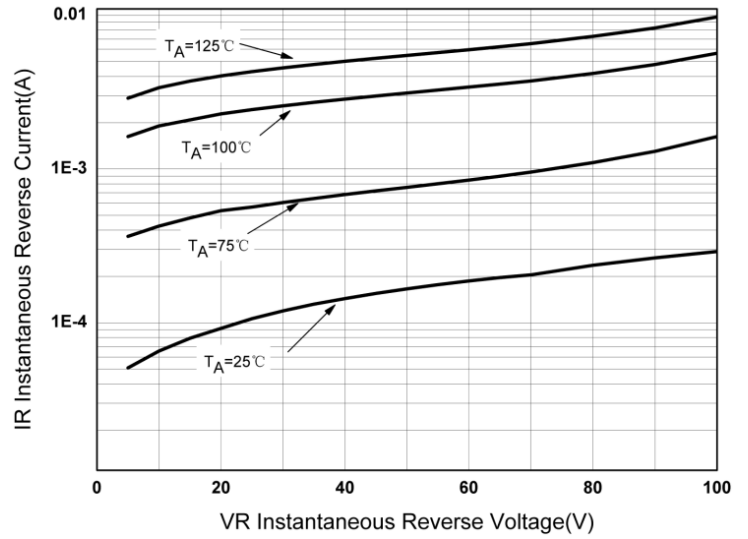


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

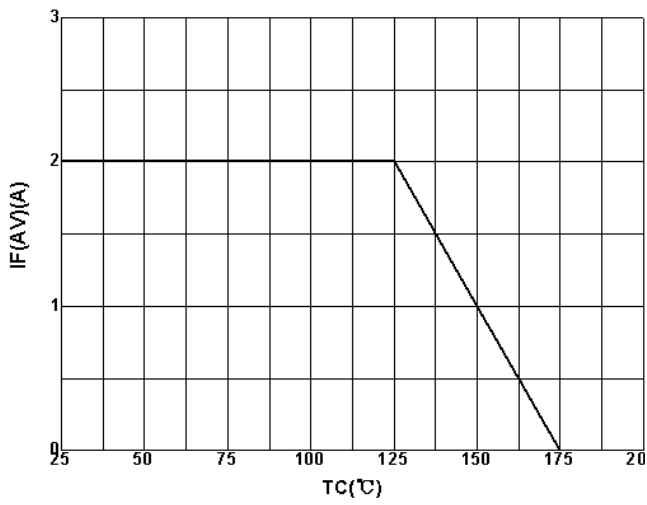
IF vs VF



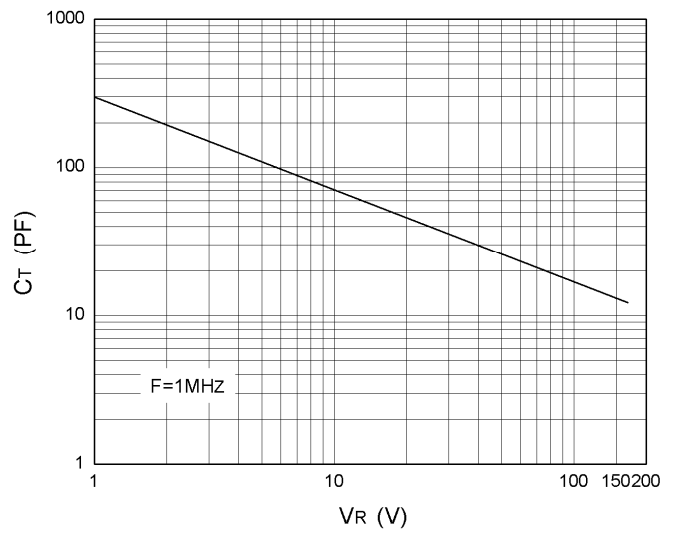
IR vs VR



IF(AV) vs TC



CJ vs VR

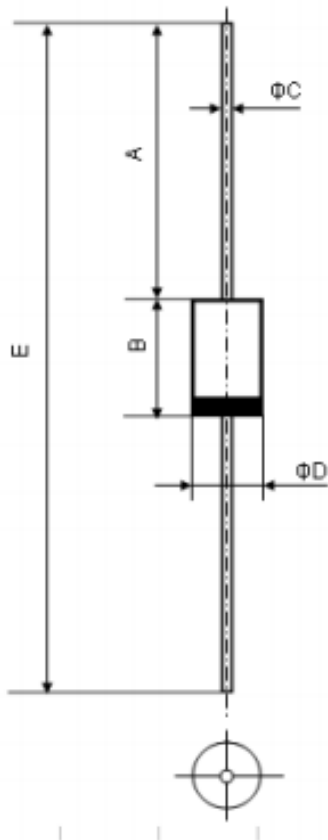




外形尺寸 PACKAGE MECHANICAL DATA

DO-41

单位 Unit : mm



符号 [Ⓟ] symbol [Ⓟ]	Min [Ⓟ]	Max [Ⓟ]
A [Ⓟ]	25.4 [Ⓟ]	-- [Ⓟ]
B [Ⓟ]	4.2 [Ⓟ]	5.2 [Ⓟ]
C [Ⓟ]	0.7 [Ⓟ]	0.9 [Ⓟ]
D [Ⓟ]	2.0 [Ⓟ]	2.7 [Ⓟ]

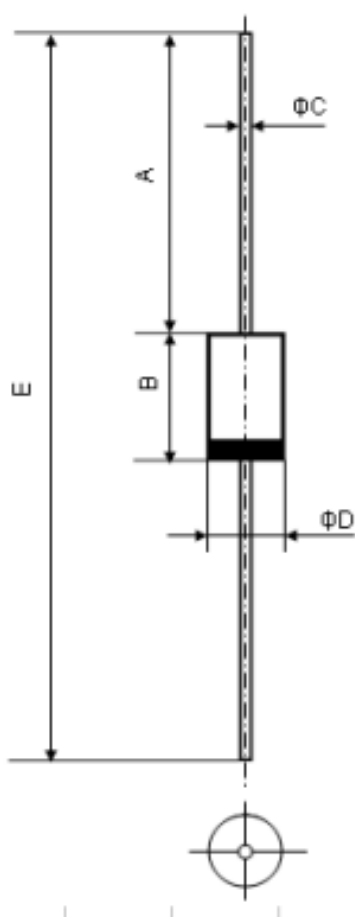




外形尺寸 PACKAGE MECHANICAL DATA

DO-15

单位 Unit : mm



符号 [Ⓢ] symbol [Ⓢ]	Min [Ⓢ]	Max [Ⓢ]
A [Ⓢ]	25.4 [Ⓢ]	— [Ⓢ]
B [Ⓢ]	5.8 [Ⓢ]	7.6 [Ⓢ]
C [Ⓢ]	0.7 [Ⓢ]	0.9 [Ⓢ]
D [Ⓢ]	2.6 [Ⓢ]	3.6 [Ⓢ]

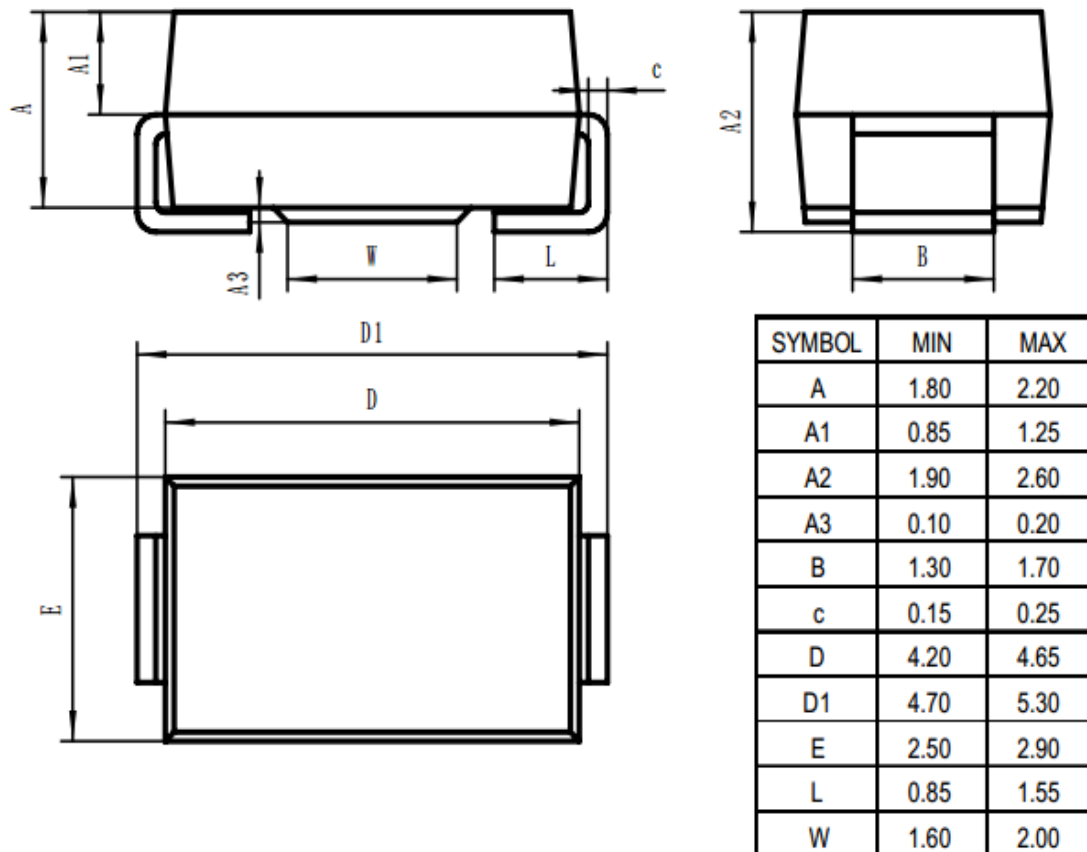


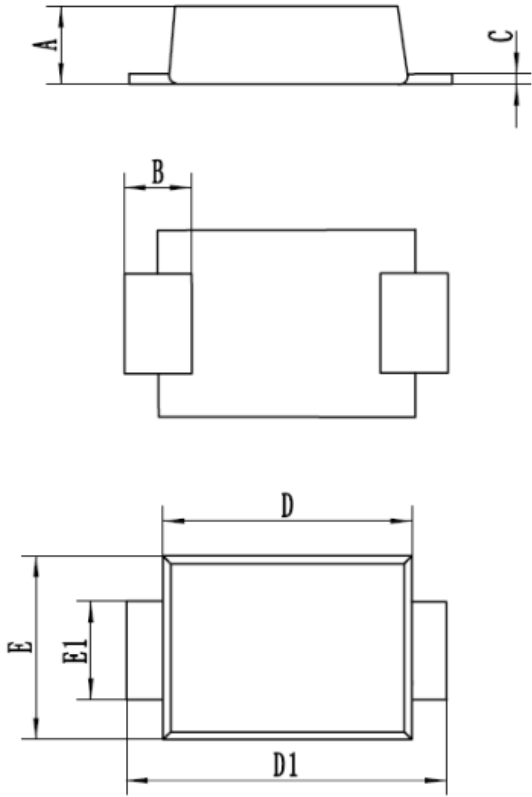


外形尺寸 PACKAGE MECHANICAL DATA

SMA

单位 Unit : mm





符号 symbol	Min	Max
A	0.90	1.10
B	0.90	1.20
C	0.10	0.16
D	3.3	3.7
D1	4.4	4.8
E	2.4	2.8
E1	1.30	1.50





注意事项

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- 3.在电路设计时请不要超过器件的绝对最大额定值,否则会影响整机的可靠性。
- 4.本说明书如有版本变更不另外告知

NOTE

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2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co., Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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附录 (Appendix): 修订记录 (Revision History)

日期 Date	旧版本 Last Rev.	新版本 New Rev.	修订内容 Description of Changes

