



MBR340

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	3A
V_{RRM}	40 V
T_j	150 °C
$V_{F(max)}$	0.48V (@ $T_j=125^{\circ}C$)

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

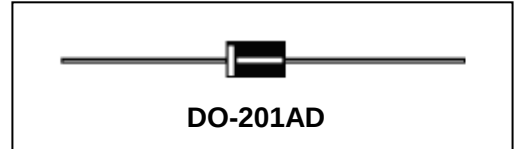
- 轴向及贴片结构
- 低功耗，高效率
- 良好的高温特性
- 有过压保护环，高可靠性
- 环保（RoHS）产品

FEATURES

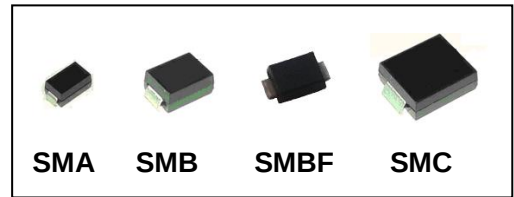
- Axial Lead and Surface Mounting Rectifier
- Low power loss, high efficiency
- High Operating Junction Temperature
- Guard ring for overvoltage protection, High reliability
- RoHS product

封装 Package

K —|— A



DO-201AD



SMA

SMB

SMBF

SMC

订货信息 ORDER MESSAGE

订 货 型 号 Order codes				印 记 Marking	封 装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
N/A	N/A	MBR340-D-A	MBR340-D-AR	MBR340	DO-201AD
N/A	N/A	MBR340-XA-A	MBR340-XA-AR	MBR340	SMA
N/A	N/A	MBR340-XC-A	MBR340-XC-AR	MBR340	SMB
N/A	N/A	MBR340-XD-A	MBR340-XD-AR	MBR340	SMBF
N/A	N/A	MBR340-XE-A	MBR340-XE-AR	MBR340	SMC



绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^{\circ}\text{C}$)

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}	40	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	40	V
正向平均整流电流 $T_c=100^{\circ}\text{C}$ Average Rectified Forward Current	$I_{F(AV)}$	3	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}	85	A
最高结温 Maximum junction temperature	T_j	150	$^{\circ}\text{C}$
储存温度 Storage temperature range	T_{STG}	-40~+150	$^{\circ}\text{C}$

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	$T_j = 25^{\circ}\text{C}$	$V_R = V_{RRM}$			50	μA
	$T_j = 125^{\circ}\text{C}$				30	mA
V_F	$T_j = 25^{\circ}\text{C}$	$I_F = 3\text{A}$		0.49	0.55	V
	$T_j = 125^{\circ}\text{C}$			0.45	0.48	V

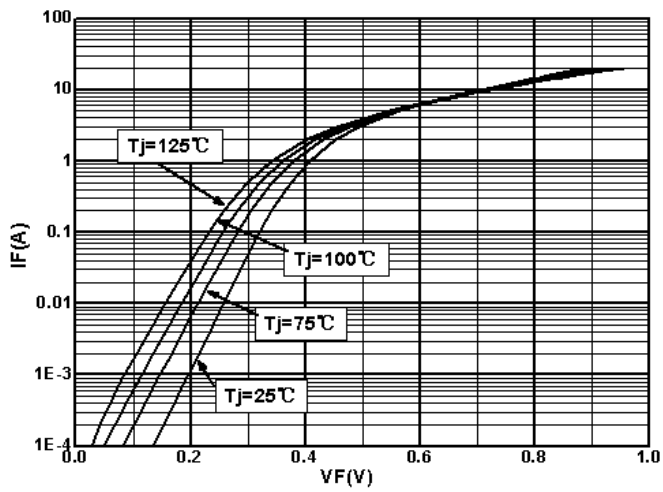
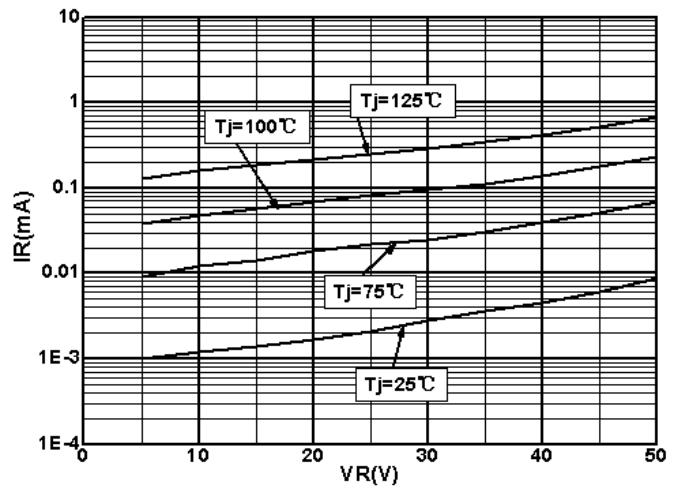
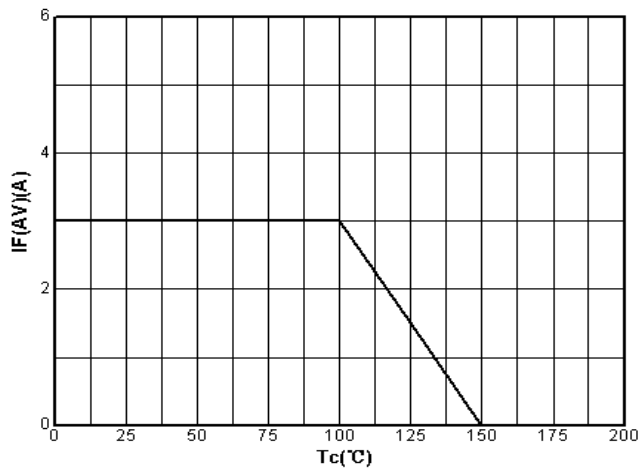
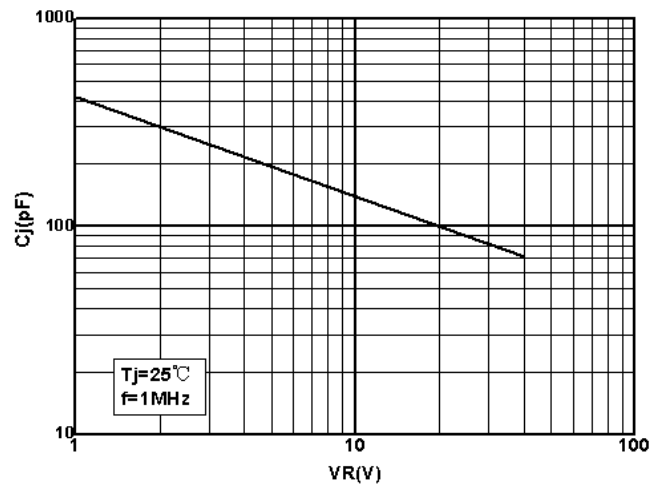
热特性 THERMAL CHARACTERISTICS

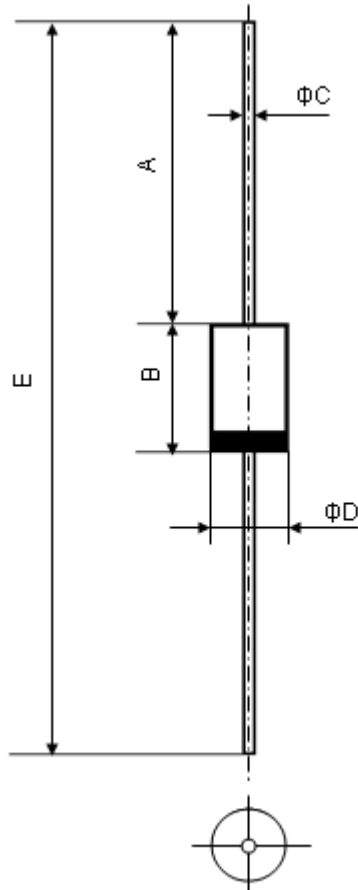
项 目 Parameter		符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 Thermal resistance from junction to ambient	DO-201AD	$R_{th(j-a)}$		70	$^{\circ}\text{C/W}$
	SMA			150	
	SMB/SMBF			140	
	SMC			120	
结到管壳的热阻 Thermal resistance from junction to case	DO-201AD	$R_{th(j-c)}$		25	$^{\circ}\text{C/W}$
	SMA			50	
	SMB/SMBF			40	
	SMC			37	





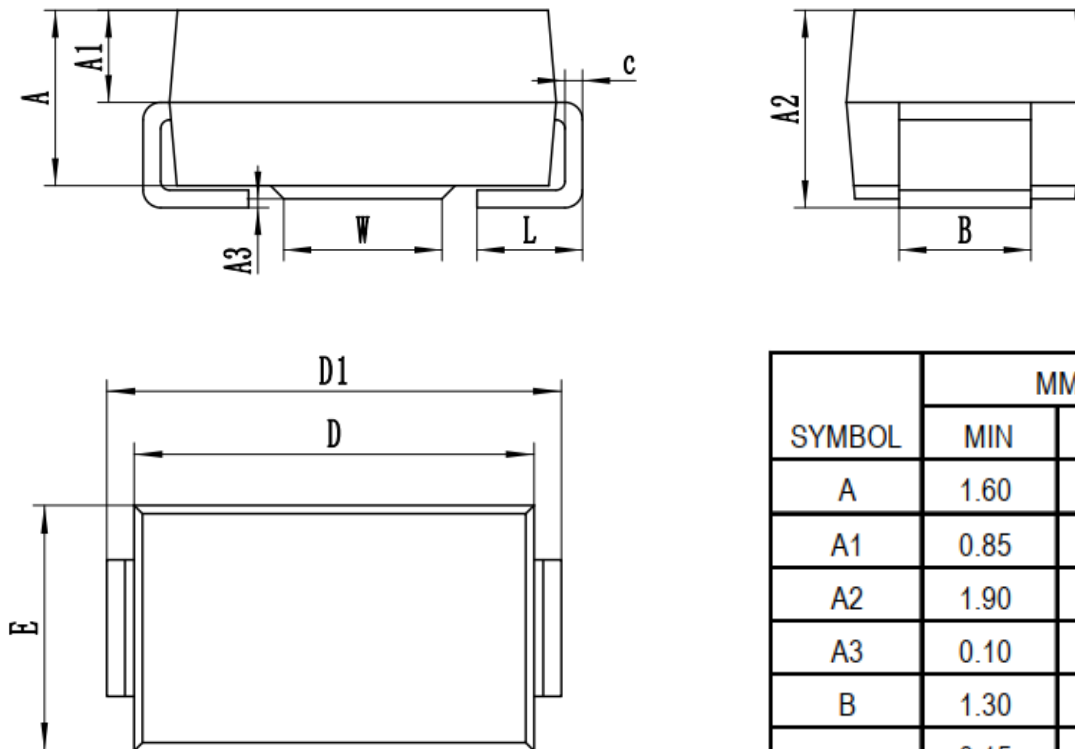
特征曲线 ELECTRICAL CHARACTERISTICS (curves)

 I_F vs V_F  I_R vs V_R  $I_F(AV)$ vs T_C  C_J vs V_R 



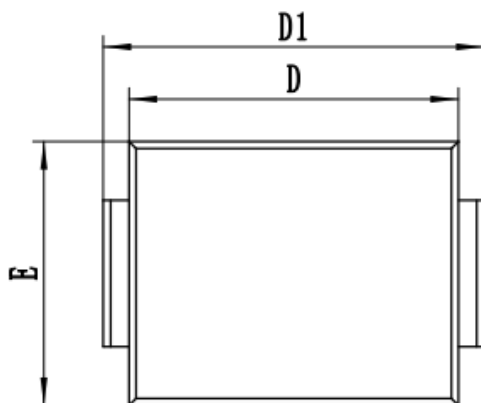
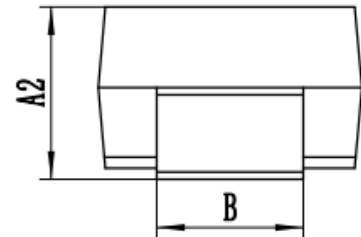
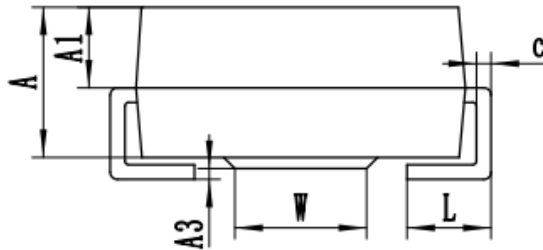
符号 Symbol	Min	Max
A	25.4	--
B	8.5	9.5
C	1.2	1.3
D	5.0	5.6
E	59.5	64





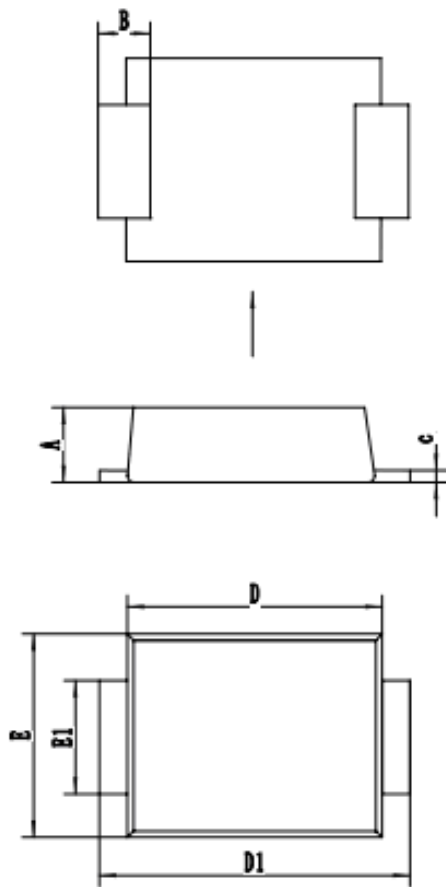
SYMBOL	MM	
	MIN	MAX
A	1.60	2.40
A1	0.85	1.25
A2	1.90	2.65
A3	0.10	0.25
B	1.30	1.70
c	0.15	0.31
D	4.00	4.70
D1	4.70	5.30
E	2.40	2.90
L	0.76	1.55
W	1.50	2.10





SYMBOL	MM	
	MIN	MAX
A	1.70	2.25
A1	0.90	1.30
A2	2.10	2.60
A3	0.00	0.30
B	1.80	2.20
c	0.10	0.30
D	4.30	4.70
D1	4.95	5.70
E	3.40	3.80
L	0.80	1.50
W	1.60	2.10





符号 symbol	Min	Max
A	1.10	1.30
B	0.80	1.10
C	0.15	0.25
D	4.3	4.7
D1	5.3	5.7
E	3.4	3.8
E1	1.90	2.10



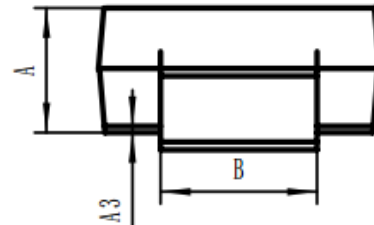
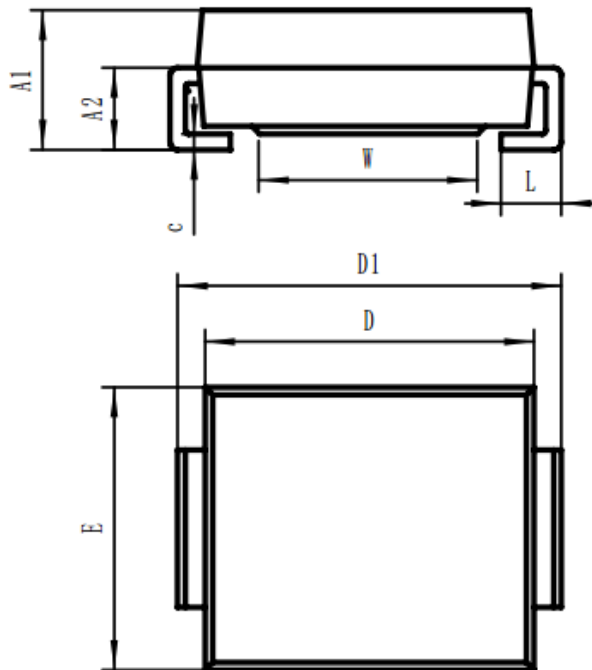


外形尺寸 PACKAGE MECHANICAL DATA

SMC

MBR340

单位 Unit : mm



SYMBOL	MIN	MAX
A	2.30	2.70
A1	2.40	3.00
A2	1.30	1.90
A3	0.10	0.20
B	2.80	3.10
c	0.15	0.25
D	6.70	7.10
D1	7.70	8.30
E	5.80	6.20
L	0.90	1.60
W	4.30	4.70



注意事项

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4. 本说明书如有版本变更不另外告知。

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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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