



MBR345L

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	3A
V_{RRM}	45 V
T_j	125°C
$V_{F(typ)}$	0.40V (@ $T_j=100^\circ\text{C}$)

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

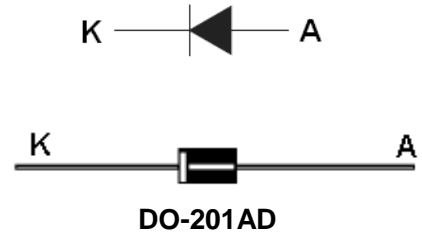
产品特性

- 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

- 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
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	MBR345L-D-A	MBR345L-D-AR	MBR345L	DO-201AD
N/A	N/A	MBR345L-XA-A	MBR345L-XA-AR	MBR345L	SMA
N/A	N/A	MBR345L-XB-A	MBR345L-XB-AR	MBR345L	SMAF
N/A	N/A	MBR345L-XC-A	MBR345L-XC-AR	MBR345L	SMB
N/A	N/A	MBR345L-XD-A	MBR345L-XD-AR	MBR345L	SMBF



绝对最大额定值 ABSOLUTE RATINGS (T_C=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}	45	V
最大直流阻断电压 Maximum DC blocking voltage		V _{DC}	45	V
正向平均整流电流 Average forward current	T _C =100℃ 整个器件 per device	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}	100	A
最高结温 Maximum junction temperature		T _j	125	℃
储存温度 Storage temperature range		T _{STG}	-55~+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}		30	100	μA
	T _j =100℃				30	mA
V _F	T _j =25℃	I _F =3A		0.44	0.47	V
	T _j =100℃			0.40	0.42	V

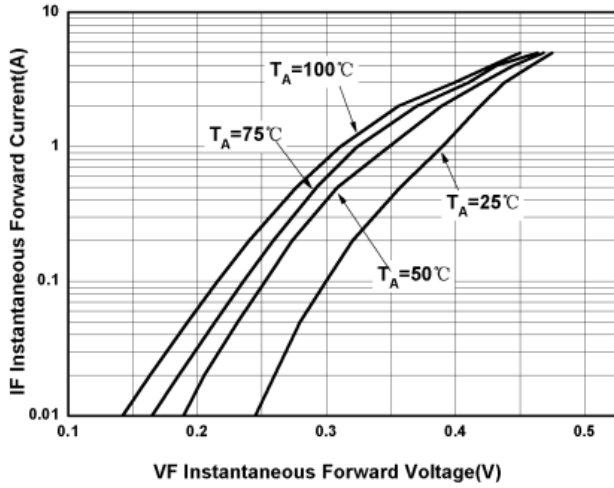
热特性 THERMAL CHARACTERISTICS

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	℃/W
	SMA/SMAF/ SMB/SMBF			140	
				120	
结到壳的热阻 Thermal resistance from junction to case	DO-201AD	R _{th(j-c)}		35	
	SMA/SMAF/ SMB/SMBF			50	
				45	

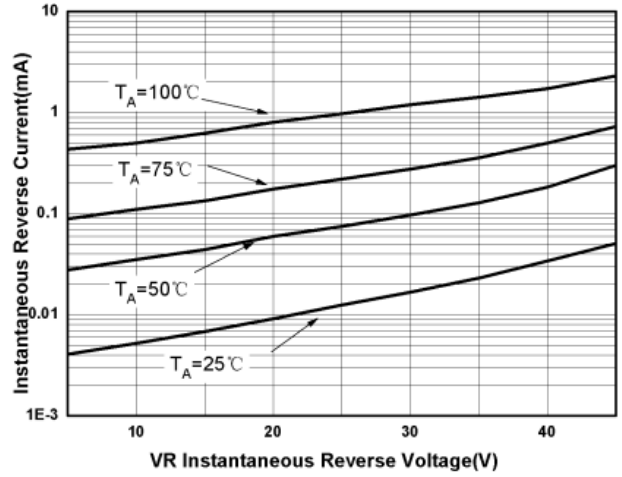


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

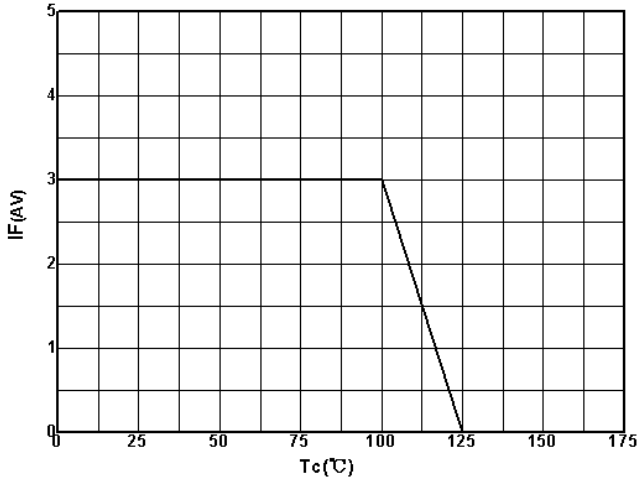
IF vs VF



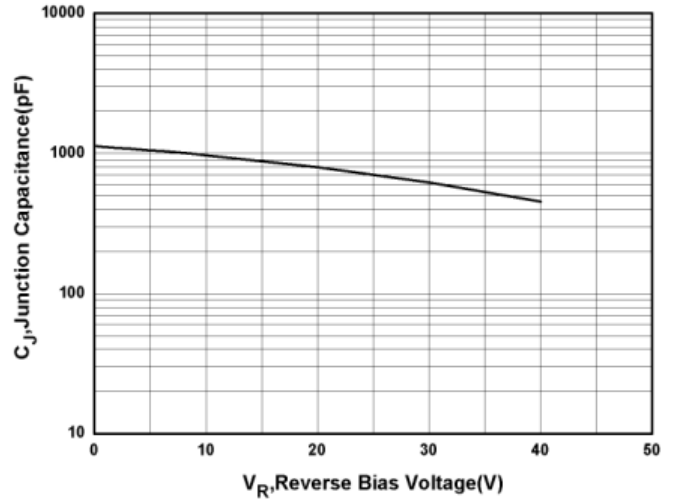
IR vs VR

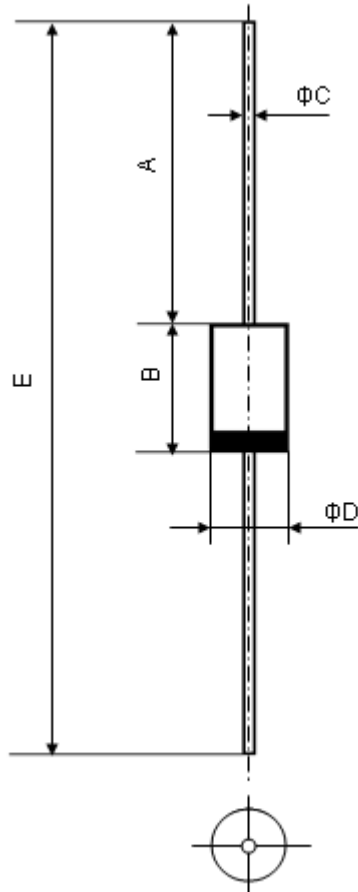


IF(AV) vs TC(°C)



CJ vs VR





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



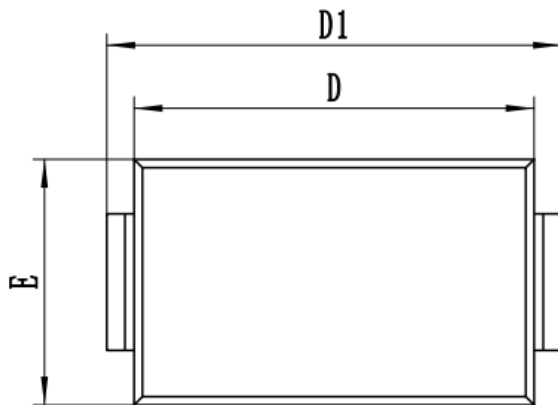
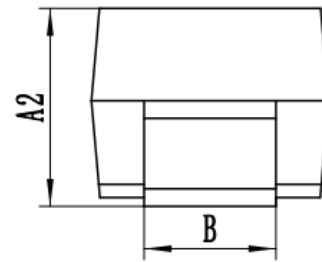
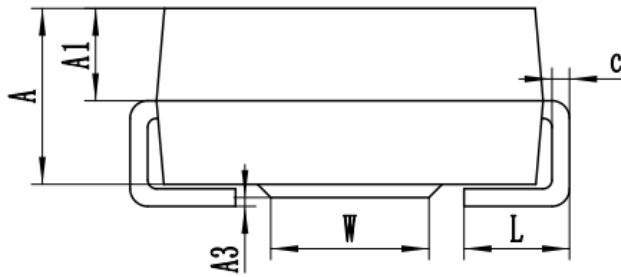


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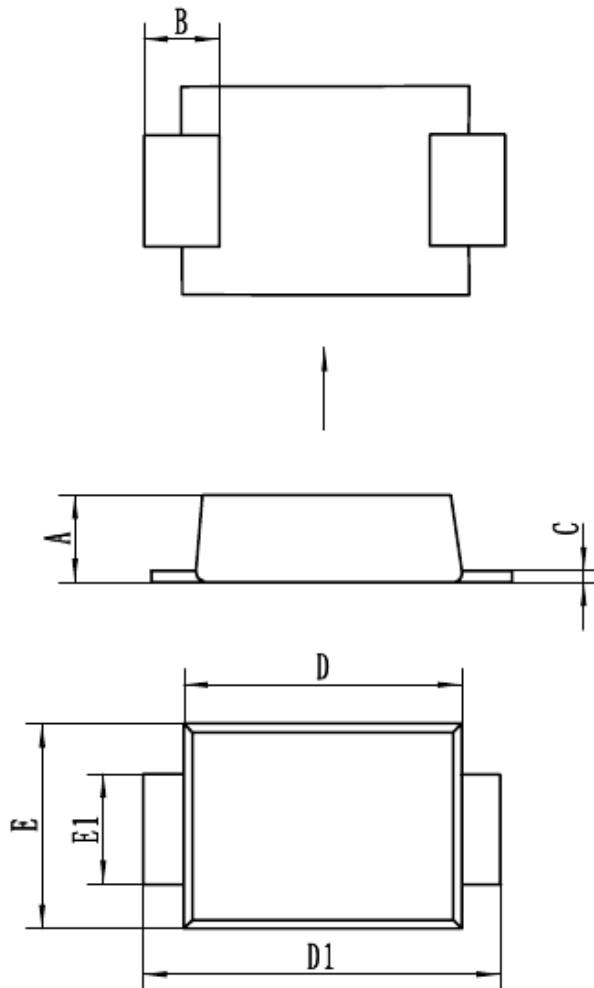
外形尺寸 PACKAGE MECHANICAL DATA

SMA

单位 Unit : mm



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



符号 symbol	Min	Max
A	0.90	1.10
B	0.90	1.20
C	0.10	0.15
D	3.3	3.7
D1	4.4	4.8
E	2.4	2.8
E1	1.30	1.50

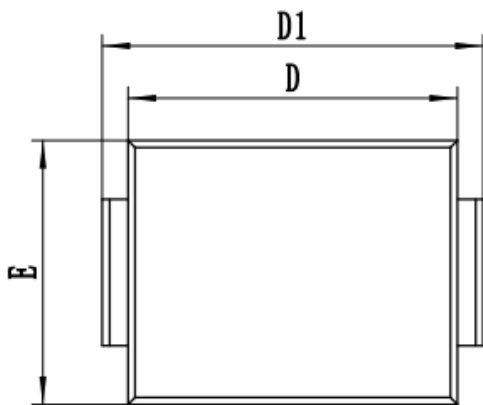
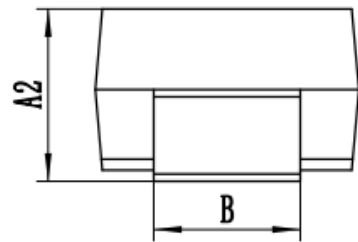
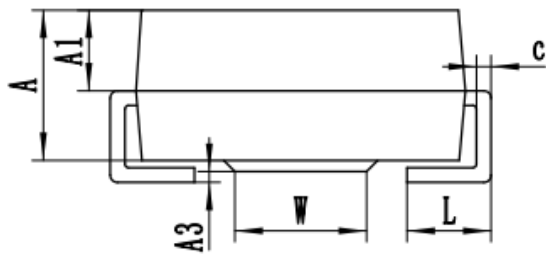


外形尺寸 PACKAGE MECHANICAL DATA

SMB

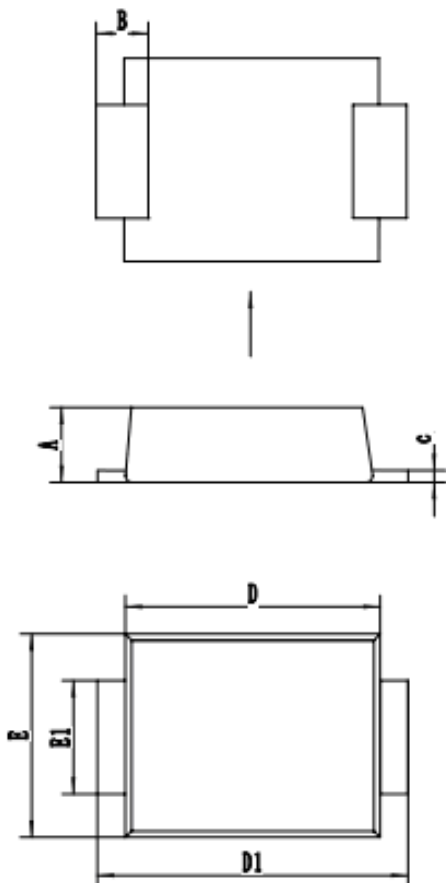
MBR345L

单位 Unit : mm



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



注意事项

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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