



# MBR360

## 主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	3A
$V_{RRM}$	60 V
$T_j$	150 °C
$V_{F(max)}$	0.58V (@ $T_j=125^{\circ}C$ )

### 用途

- 低压、高频整流
- 低压续流电路和保护电路

### 产品特性

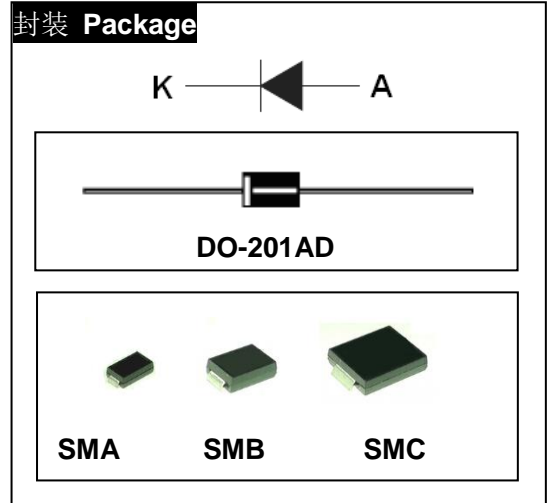
- 轴向结构
- 低功耗，高效率
- 良好的高温特性
- 有过压保护环，高可靠性
- 环保 (RoHS) 产品

### APPLICATIONS

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

### FEATURES

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



## 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	MBR360-D-A	MBR360-D-AR	MBR360	DO-201AD
N/A	N/A	MBR360-XA-A	MBR360-XA-AR	MBR360	SMA
N/A	N/A	MBR360-XC-A	MBR360-XC-AR	MBR360	SMB
N/A	N/A	MBR360-XE-A	MBR360-XE-AR	MBR360	SMC





**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 <sub>RRM</sub>	60	V
最大直流阻断电压 Maximum DC blocking voltage	V <sub>DC</sub>	60	V
正向平均整流电流T <sub>c</sub> =100℃ Average Rectified Forward Current	I <sub>F(AV)</sub>	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 <sub>FSM</sub>	80	A
最高结温 Maximum junction temperature	T <sub>j</sub>	150	℃
储存温度 Storage temperature range	T <sub>STG</sub>	-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 <sub>R</sub>	T <sub>j</sub> =25℃	V <sub>R</sub> =V <sub>RRM</sub>			50	μA
	T <sub>j</sub> =125℃				30	mA
V <sub>F</sub>	T <sub>j</sub> =25℃	I <sub>F</sub> =3A		0.60	0.7	V
	T <sub>j</sub> =125℃			0.55	0.58	V

**热特性 THERMAL CHARACTERISTICS**

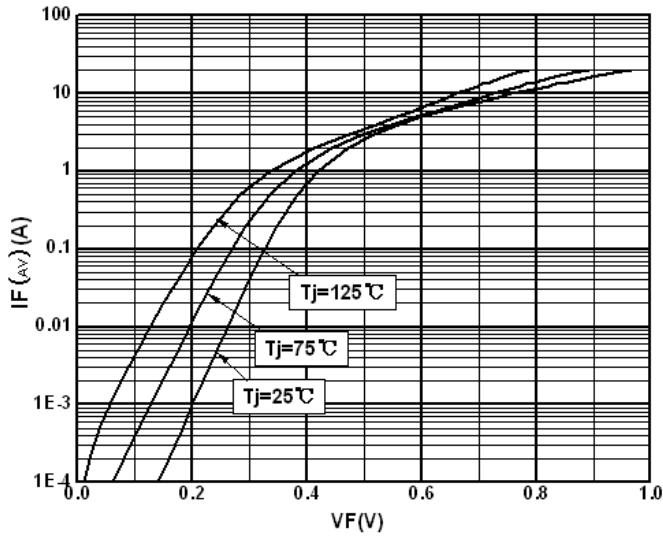
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 Thermal resistance from junction to ambient	DO-201AD	R <sub>th(j-a)</sub>		70
	SMA			150
	SMB			140
	SMC			120
结到管壳的热阻 Thermal resistance from junction to case	DO-201AD	R <sub>th(j-c)</sub>		25
	SMA			50
	SMB			40
	SMC			37



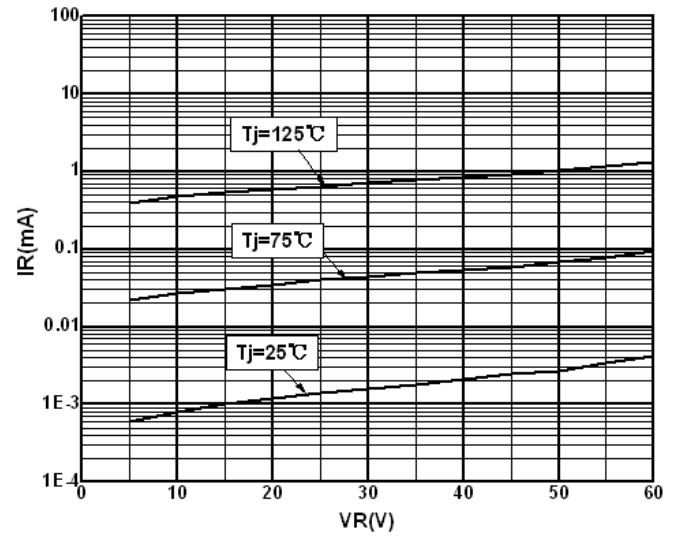


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

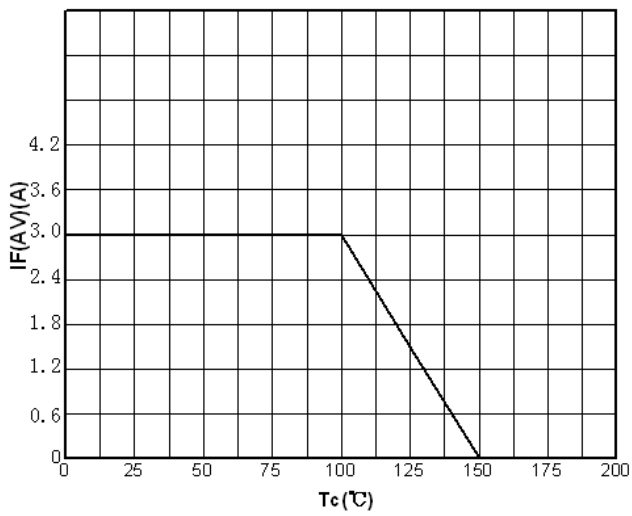
IF vs VF



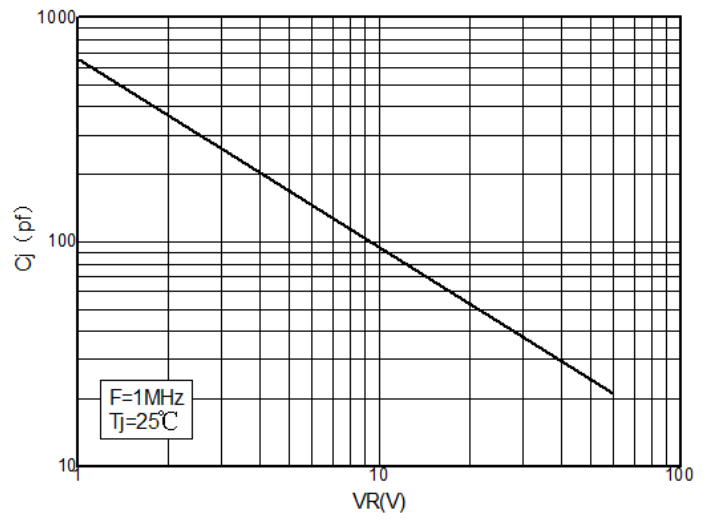
IR vs VR

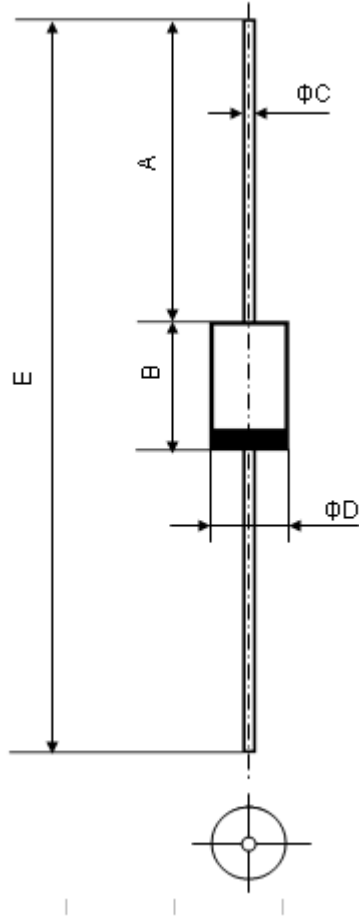


IF(AV) vs Tc



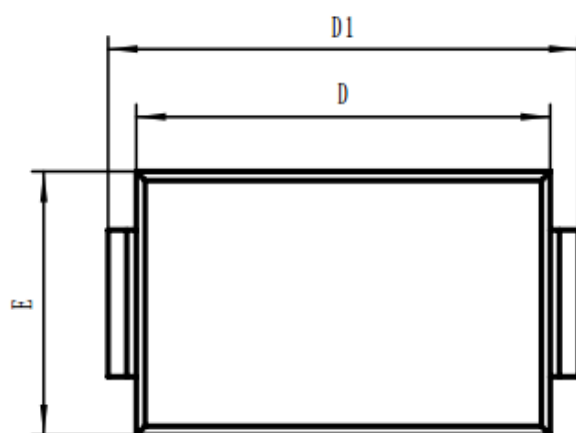
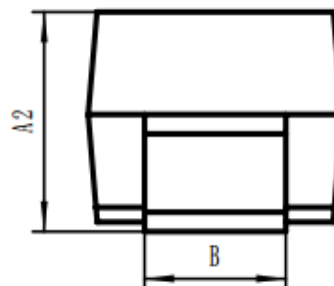
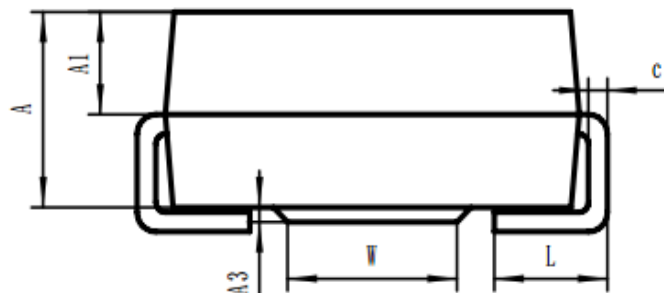
CJ vs VR





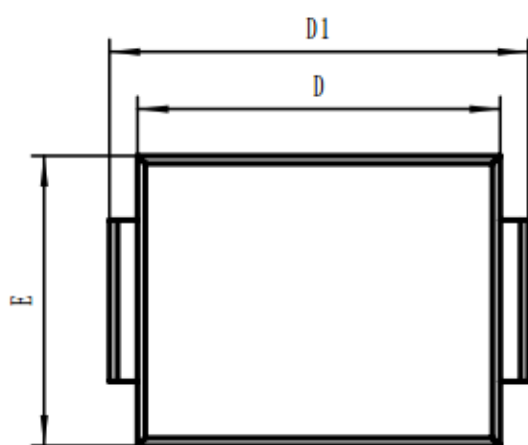
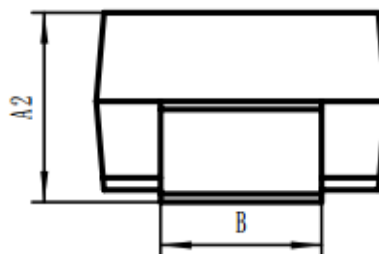
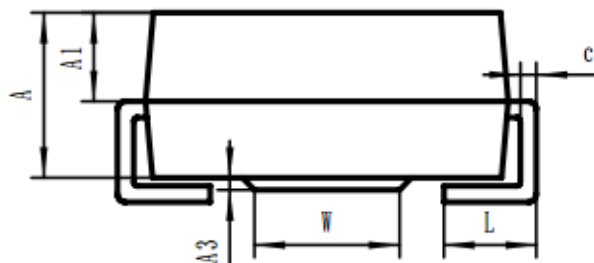
符号 Symbol	Min	Max
A	25.4	--
B	8.5	9.5
C	1.2	1.3
D	5.0	5.6
E	59.5	64





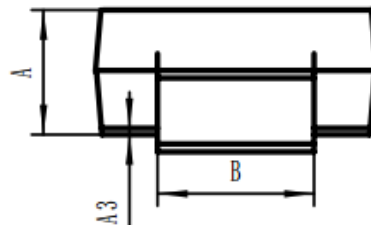
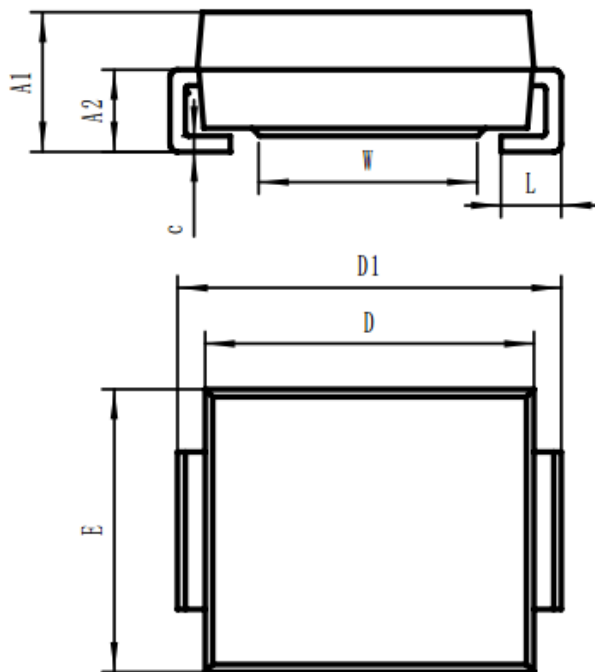
SYMBOL	MIN	MAX
A	1.80	2.20
A1	0.85	1.25
A2	1.90	2.60
A3	0.10	0.20
B	1.30	1.70
c	0.15	0.25
D	4.20	4.65
D1	4.70	5.30
E	2.50	2.90
L	0.85	1.55
W	1.60	2.00





SYMBOL	MIN	MAX
A	1.85	2.25
A1	0.90	1.30
A2	2.10	2.60
A3	0.10	0.20
B	1.80	2.20
c	0.10	0.30
D	4.30	4.70
D1	4.95	5.45
E	3.40	3.80
L	0.80	1.50
W	1.60	2.00





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



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