



AHBR10150

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	10 (2×5) A
V_{RRM}	150 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
- 汽车电子产品

产品特性

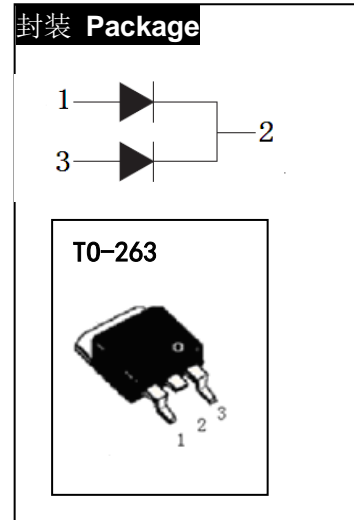
- 共阴结构
- 低功耗，高效率
- 良好的高温特性
- 有过压保护环，高可靠性
- 环保（RoHS）产品
- 湿敏等级 MSL 1

APPLICATIONS

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

FEATURES

- Common cathode structure
- Low power loss, high efficiency
- High Operating Junction Temperature
- Guard ring for overvoltage protection, High reliability
- RoHS product
- Device Meets MSL 1 Requirements



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		
AHBR10150-S-B	AHBR10150-S-BR	N/A	N/A	HBR10150	TO-263

**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}	150	V
最大直流阻断电压 Maximum DC blocking voltage		V _{DC}	150	V
正向平均整流电流 Average forward current	T _C =125℃	I _{F(AV)}	10	A
	整个器件 per device 单 侧 per diode		5	
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}	120	A
最高结温 Maximum junction temperature		T _j	175	℃
储存温度 Storage temperature range		T _{STG}	-40~+175	℃

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℃				4.5	mA
V _F	T _j =25℃	I _F =5A		0.81	0.9	V
	T _j =125℃			0.67	0.72	V
	T _j =25℃	I _F =10A		0.89	0.95	V
	T _j =125℃			0.76	0.8	V

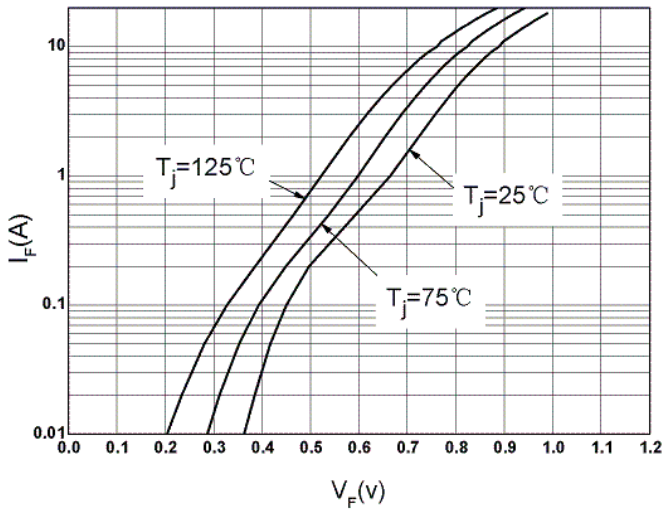
热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal resistance from junction to case	R _{th(j-c)}		2.2	℃/W

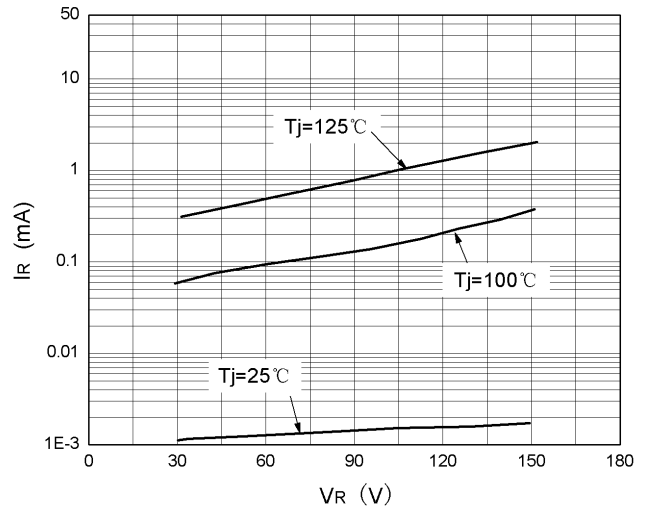


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

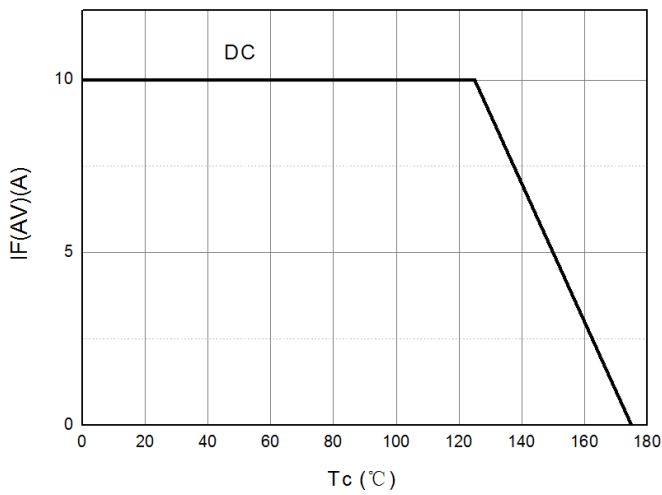
IF vs VF



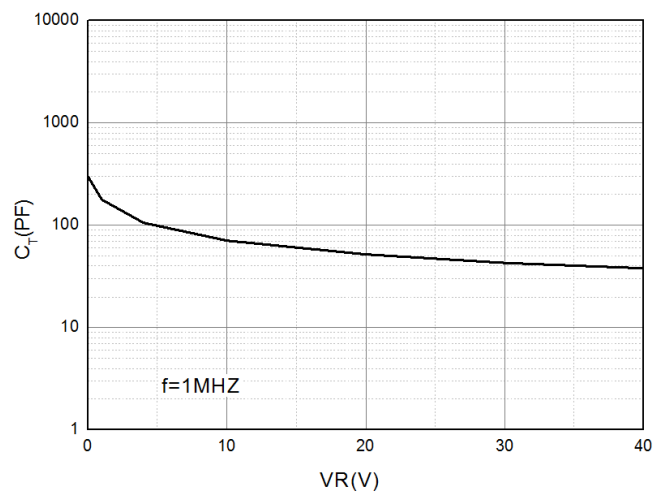
IR vs VR

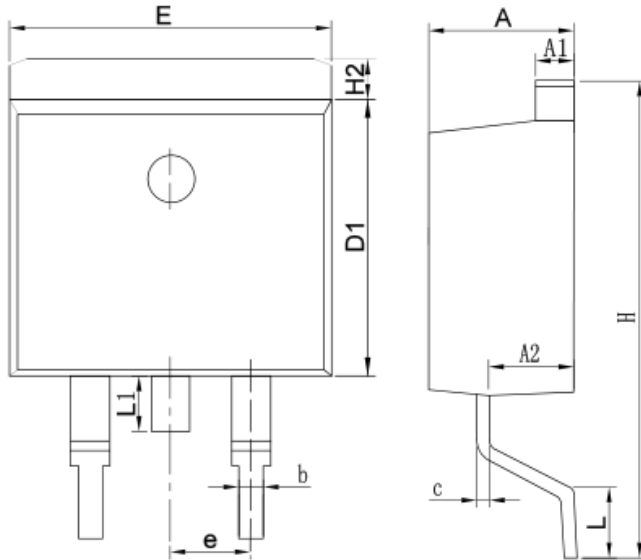


IF(AV) vs Tc



CT vs VR





SYMBOL	MM	
	MIN	MAX
A	4.30	4.80
A1	1.12	1.42
A2	2.54	2.84
b	0.67	1.00
c	0.29	0.52
D1	8.40	9.00
E	9.80	10.46
e	2.54BSC	
H	14.00	16.00
H2	1.12	1.45
L	1.50	3.10
L1	1.45	1.70



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