

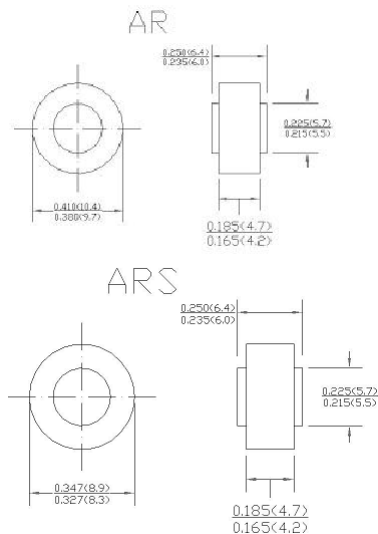
特征 FEATURES

- .高浪涌承受能力. High surge capability
- .低成本.Low cost
- .扩散烧结. Diffused junction
- .低漏电.Low leakage
- .大电流承受能力. High current capability
- . 高温焊接保证: 250°C/10 秒.

High temperature soldering guaranteed:
250°C for 10 seconds

机械数据 MECHANICAL DATA

- .封装:模塑 AR/ARS 封装.Case: AR/ARS molded plastic
- .端子:镀锡端子, 可焊接性符合 MIL-STD-750,方法 2026.
- Terminals: Solder plated, solderable per MIL-STD-750 Method 2026
- .极性:用阴极色带表示. Polarity : indicated by cathode band
- .安装位置: 任意.Mounting Position: Any
- .重量: 1.8 克. Weight: 1.8 grams (0.07ounce)



Dimension in inches (millimeters)

极限值和电参数 TA= 25°C除非另有规定. 单相,正半弦波,60HZ,阻抗或电感负载.为电容装载,减少电流的 20%

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. Unless otherwise specified. Single phase, half sine wave, 60HZ,resistive or inductive load.
For capacitive load, derate current by 20%

	SYMBOL	AR/ARS							UNITS
		5005	501	502	504	506	508	5010	
最大峰值反向电压 Maximum Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
最大反向有效电流 Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
最大直流阻断电压 Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
最大正向平均整流电流 $T_J=125^{\circ}\text{C}$ Maximum Average Forward Rectified Current	I(AV)	50							Amps
正向峰值浪涌电流 Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	IFSM	500							Amps
50A 直流电时最大正向瞬间电压降 Maximum Instantaneous Forward Voltage @ 50A	VF	1.0							Volts
最大反向漏电流 Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}\text{C}$	IR	5.0 200.0							uA
典型结电容 Typical Junction Capacitance	CJ	300							pF
典型热阻 Typical Thermal Resistance	RθJA	1.0							°C/W
工作温度存储温度 Operating AND Storage Temperature Range	TJ /TSTG	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES AR/ARS 5005 THRU 5010

FIG. 1 – 输出电流曲线

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

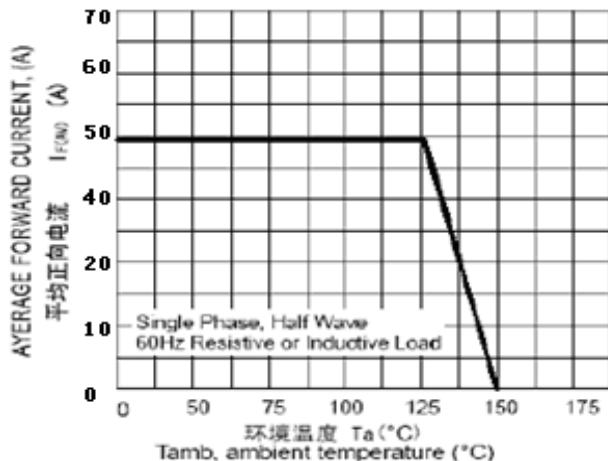


FIG. 3 – 瞬间正向特性曲线

FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

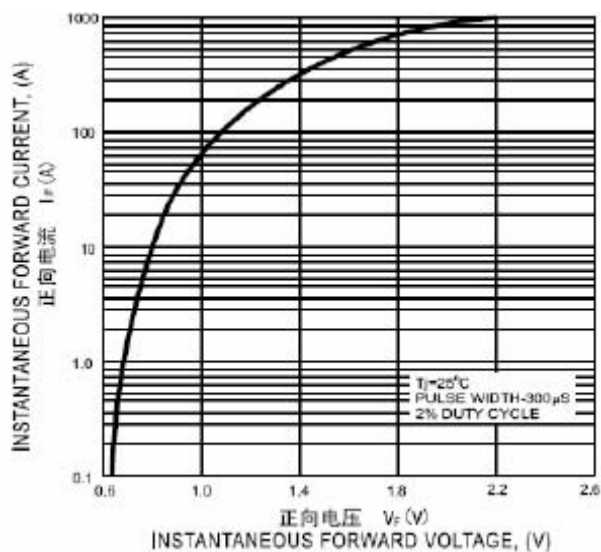


FIG. 5 – 典型结电容

FIG. 5 – TYPICAL JUNCTION CAPACITANCE

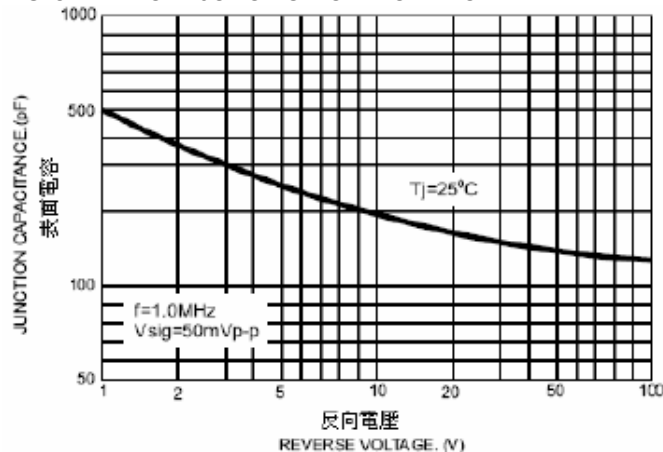


FIG. 2 – 浪涌特性曲线

FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

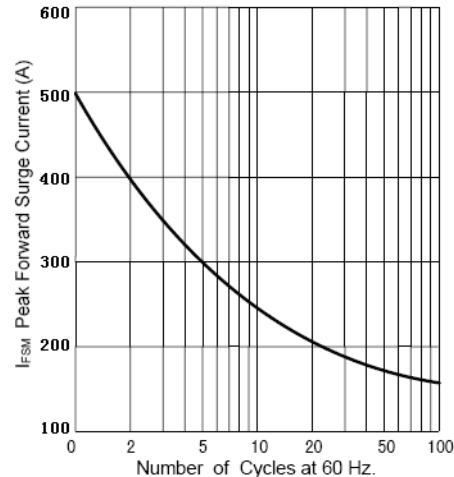


FIG. 4 – 反向特征曲线

FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

