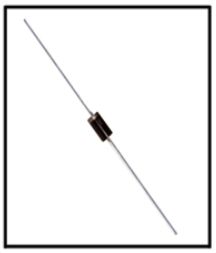
飞仕龙达 FEISHILONGDA

RD 超快速整流器 Ultra Fast Rectifiers [SF Series]

特性/机械性能： FEATURES/MECHANICAL DATE

- ◆ 低正向压降 Low forward voltage drop
- ◆ 大电流导通能力 High current capability
- ◆ 高可靠性 High reliability
- ◆ 大电流浪涌能力 High surge current capability
- ◆ 耐焊接热：250℃/10S，引出端0.375”（9.5mm）处。
  High temperature soldering guaranteed:250℃ / 10S / 9.5mm lead length



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- ◆ 封 装: 模塑封装 Case: Molded plastic
- ◆ 塑封材料：采用UL94V-O认可的阻燃环氧料 Epoxy：UL94V-0 rate flame retardant
- ◆ 引 线：电镀轴式引线可焊性符合MIL-STD-202E, 方法208
  Lead：Axial lead solderable per MIL-STD-202,methode 208 guaranteed
- ◆ 极 性：色环表示阴极 Polarity: Color band denotes cathode end
- ◆ 安装位置：任意 Mounting position: Any

最大额定值及电气特性 MAXIMUM RATINGS AND CHARACTERISTICS

测量环境温度为25℃，除非另有规定. 单相半波，50HZ，阻性或感性负载，对于容性负载，电流降额20%。
Rating at 25℃ ambient temperature unless otherwise specified. Single phase，half wave，50HZ，resistive or inductive load. For capacitive load，derate current by 20%.

参数名称 Papt Number	符号Symbol	SF21	SF22	SF23	SF24	SF25	SF26	SF28	Unit
最大重复峰值反向电压Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
最大平均有效值电压Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	V
最大直流截止电压Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V
最大平均正向整流电流Maximum Average Forward Rectified Current0.375”（9.5mm）Lead Length at Ta=25℃	IF（AV）	2.0							A
峰值正向浪涌电流,额定负载下，单相正弦半波10毫秒(EDEC方法) Peak Forward Surge Current 10ms Single Half Sine-wave Superimposed On Rated Load(JEDEC method)	IFSM	75							A
最大瞬间正向电压Maximum Instantaneous Forward Voltage @2.0A	VF	0.95			1.4	1.7			V
最大反向直流电流 Maximum DC Reverse Current Ta = 25℃ at Rated DC Blocking Voltage（VR=VDC）Ta = 100℃	IR	5.0 100							μA μA
最大反向恢复时间 Maximum Reverse Recovery Time (Note 1)	Trr	35							ns
典型结电容 Typical Junction Capacitance (Note 2)	CJ	50							PF
使用及储存温度范围 Operating and Storage Temperature Range	TJ,TSTG	-65～+150							℃

注 释：NOTES：

1. 反向恢复时间测试条件：IF=0.5A，IR=1.0A，IRR=0.25A.
   Reverse Recovery Test Conditions：IF=0.5A，IR=1.0A，IRR=0.25A
2. 在1MHz下测量，施加4.0V D.C的反向电压. Measured at 1MHz and applied reverse voltage of 4.0 volts D.C.
3. 热阻是指从结至周围环境的热阻，在0.375 " (9.5mm) 引线长度处.
   Hermal Resistance from Junction to Ambient .375 (9.5mm) lead length.

产品外形尺寸： Product appearance size

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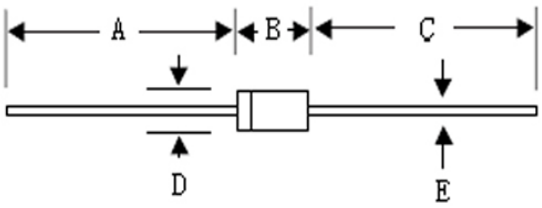

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.230	0.300	5.8	7.6
C	1.0		25.4	
D	0.104	0.140	2.60	3.60
E	0.028	0.034	0.71	0.86

电特性： ELECTRICAL CHARACTERISTICS

FIG.1 - TYPICAL REVERSE CHARACTERISTICS

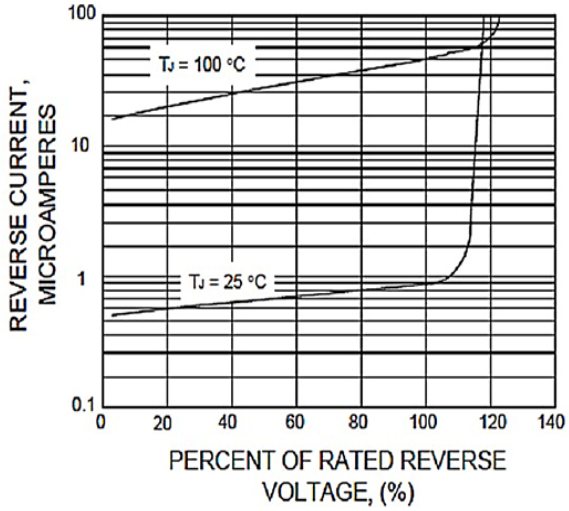

FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

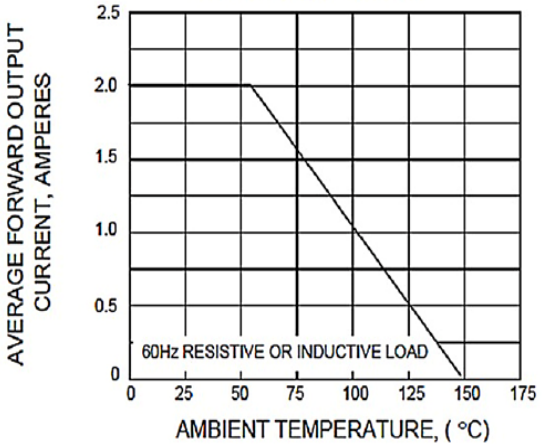

FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

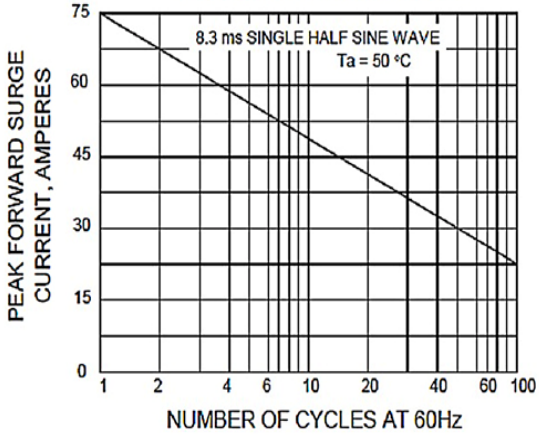

FIG.4 - TYPICAL FORWARD CHARACTERISTICS