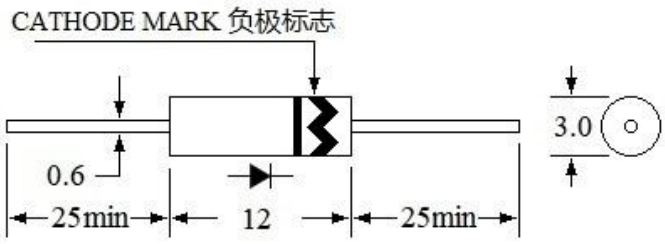
AF03-20F

Axial Lead Fast Recovery High Voltage Diode
轴向引线快恢复高压二极管

PRODUCT DRAWING 产品图



FEATURES 产品特点

High reliability design 高可靠性设计
Medium power 中等功率
High speed switching 高速开关
Conform to RoHS and REACH 符合 RoHS 和 REACH

APPLICATIONS 应用领域

Rectification for high voltage power supply of color T.V. 彩色电视机高压电源整流用；

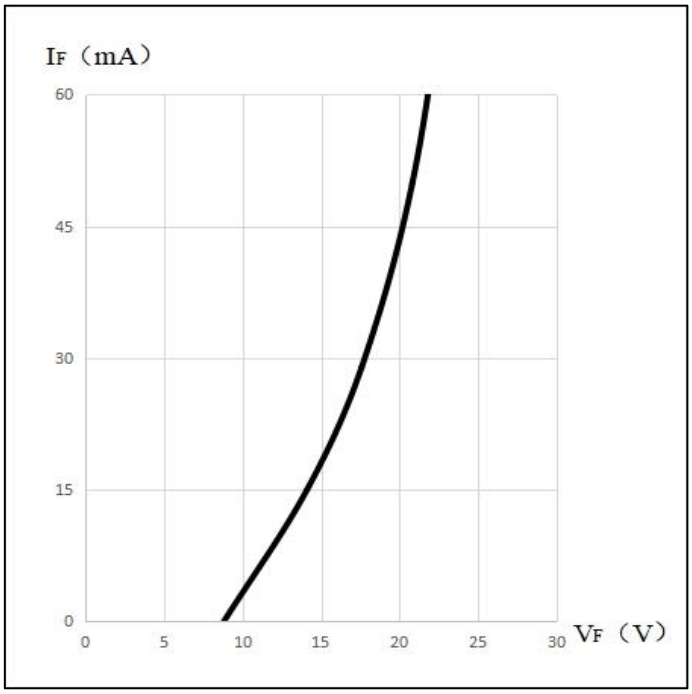
Rectification for high voltage power supply of CRT display. CRT显示器高压电源整流用；

Others. 其他高压电源整流用。

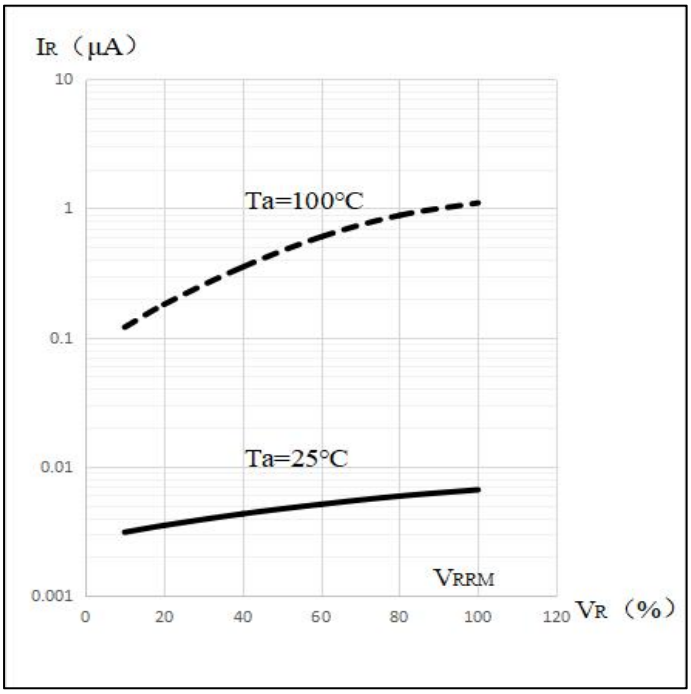
ELECTRICAL CHARACTERISTICS（at T_a=25°C Unless Otherwise Specified）
电性能参数（ T_a=25°C 除非另有说明）

Specification 参数	Conditions 条件	Symbol 符号	Value 界限值
Repetitive Peak Reverse Voltage 反向重复峰值电压	--	V_{RRM}	20kV
Average Forward Current 平均正向电流	At T_a= 55 °C Air T_a= 55 °C 空气中	I_{FAV}	55mA
Peak Forward Voltage 正向峰值电压	I_F=30mA	V_{FM}	35V
Forward Surge Current 正向浪涌电流	At 8.3 mS,half sine 8.3 mS,正弦半波	I_{FSM}	3Amps
Reverse Current 反向电流	At Rated V_{RRM}, 25 °C Ambient 额定 V_{RRM}, 环境温度 25 °C	I_{RM1}	2μA
	At Rated V_{RRM}, 100 °C oil 额定 V_{RRM},100 °C 油中	I_{RM2}	5μA
Reverse Recovery Time 反向恢复时间	I_F =100 mA;I_R = -200 mA; Irr = -50 mA	t_{rr}	100ns
Typical Junction Capacitance 典型的结电容	At V_R = 0 VDC, Frequency = 1 MHz V_R = 0 VDC, 频率 = 1 MHz	C_j	1.0pF
Maximum Junction Temperature 最高结温	--	T_j	125°C
Storage Temperature Range 存储温度范围	--	T_{stg}	-55 to 175°C

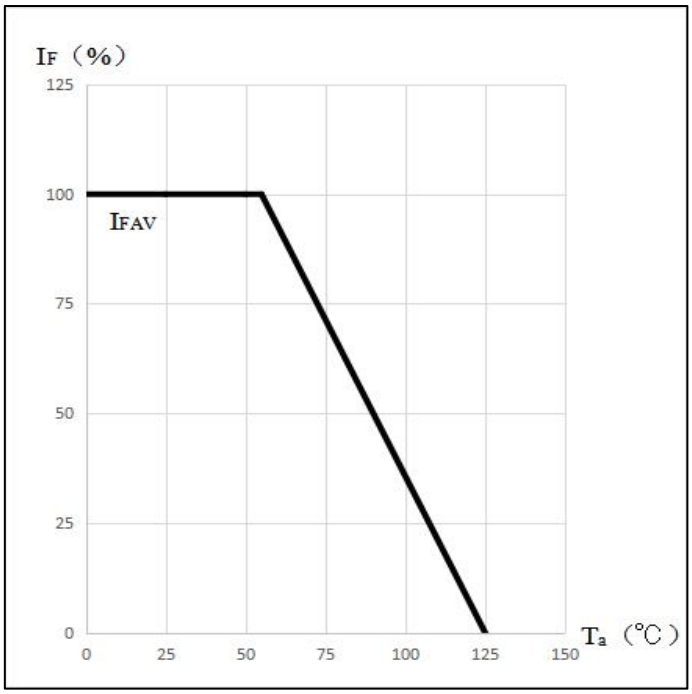
CHARACTERISTIC CURVE 特性曲线



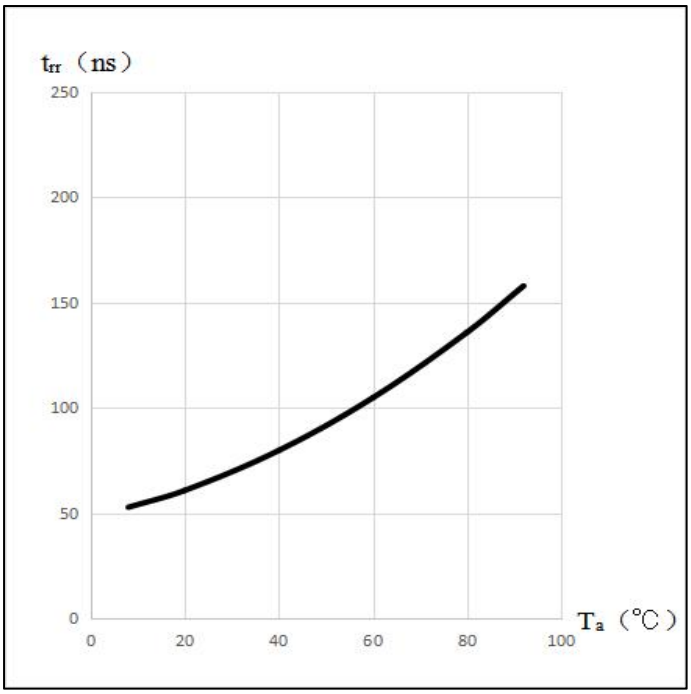
正向特性曲线
I_F-V_F Curve



反向漏电流随电压变化曲线
I_R-V_R Curve



正向整流电流随温度变化曲线
I_{FAV}-T_a Curve



反向恢复时间随温度变化曲线
t_{rr}-T_a Curve