

5218M大功率密封直流固体继电器

5218M high power sealed DC solid state relay

60A/50Vd.c.

一组常开
One set normally open

详细规范号: Q/RG0607-2010
Detailed specification number: Q/RG0607-2010

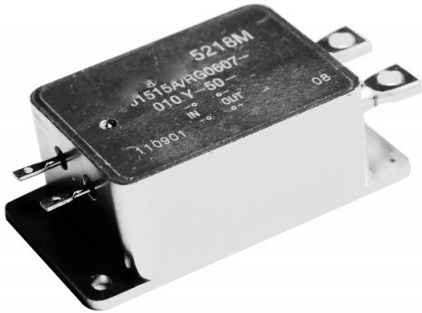
一、简介

1. Introduction

5218M 型大功率密封直流固体继电器符合 GJB 1515A-2001 《固体继电器总规范》规定的 1 类分立结构固体继电器的要求。质量等级 Y 级。

该产品可广泛应用于国防、科研及工业控制领域。适用于航空、航天、军用武器装备的电源配电系统作电源开关之用。

The 5218M high-power sealed DC solid-state relay meets the requirements of Class 1 discrete structure solid-state relays specified in GJB 1515A-2001 "General Specification for Solid-State Relays". Quality grade Y. This product can be widely used in the fields of national defense, scientific research and industrial control. It is suitable for use as a power switch in the power distribution system of aviation, aerospace and military weapons and equipment.



外形尺寸: 61mm×35mm×21mm
Dimensions:

二、特性

characteristic

- 变压器隔离
Transformer isolation
- 场效应管输出
FET output
- 一组常开输出
One set of normally open outputs
- 熔焊密封
Welding seal

三、主要技术参数

Main technical parameters

技术参数 Technical parameters		最小值 Minimum value	典型值 Typical value	最大值 Maximum value	单位 Unit	备注 Remarks
输出参数 Output parameters						
输出电流 Output current				60	A	图 1 Figure 1
输出电压 Output voltage			50	60	Vd.c.	
输出电压降 Output voltage drop				0.4	Vd.c.	图 3 Figure 3
输出漏电流 Output leakage current				10	μA	
瞬态电压 Transient voltage		75			Vd.c.	
过负载 Overload				210	A	图 2 Figure 2
输入参数 Input parameters						
输入电压 范围 Input voltage range	005-50-规格 Specification	4	5	7	Vd.c.	
	010-50-规格 Specification	10	27	32	Vd.c.	
反极性 Reverse polarity	005-50-规格 Specification			7	Vd.c.	
	010-50-规格 Specification			32	Vd.c.	
输入接通 电压 Input on voltage	005-50-规格 Specification			4	Vd.c.	
	010-50-规格 Specification			10	Vd.c.	
输入关断 电压 Input off voltage	005-50-规格 Specification	1			Vd.c.	
	010-50-规格 Specification	2.5			Vd.c	
输入电流 Input current	005-50-规格 Specification		10	15	mA	
	010-50-规格 Specification		15	25	mA.	
接通时间 On time				0.1	ms	
关断时间 Off time				1	ms	
电气参数 Electrical parameters						
绝缘电阻 Insulation resistance		1000			MΩ	
介质耐电压 Dielectric withstand voltage			1000		Vr.m.s.	

五、特性曲线

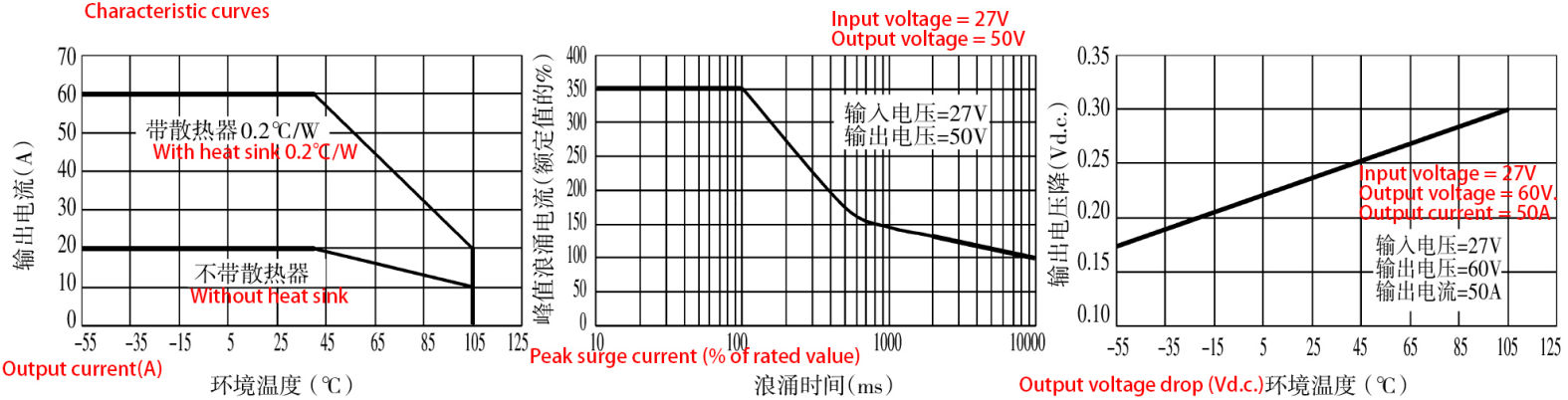
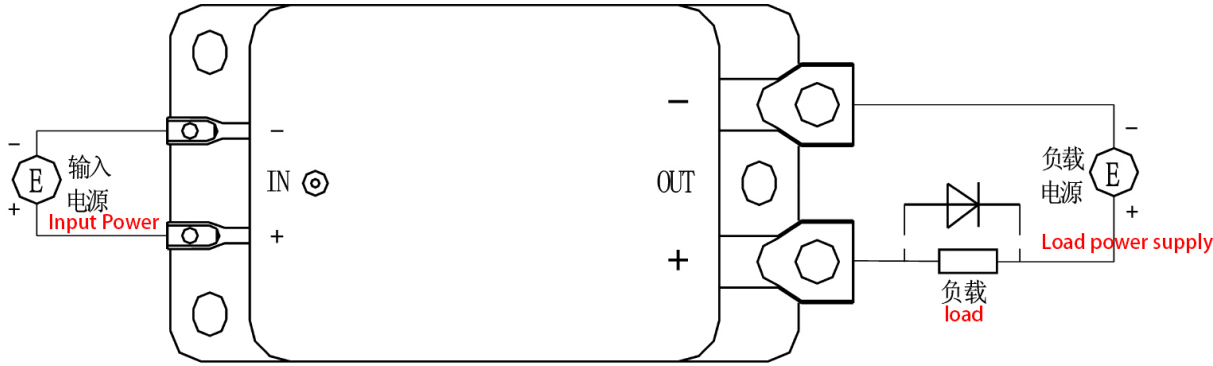


图1 输出电流—环境温度曲线
Ambient temperature (°C)
Figure 1 Output current-ambient temperature curve

图2 峰值浪涌电流—浪涌时间曲线
Surge time (ms)
Figure 2 Peak surge current-surge time curve

图3 输出电压降—环境温度曲线
Ambient temperature (°C)
Figure 3 Output voltage drop-ambient temperature curve

六、应用电路



典型应用接线电路(俯视接线)
Typical application wiring circuit (top view wiring)

七、订货示例

Ordering Example

5218M /010Y-50-

规格序号(Y:质量等级)
Specification number (Y: quality grade)
产品型号
Product model

●说明:

- 当负载为感性负载时,应在负载两端并联续流二极管。
- 继电器的输出端串入负载回路时,负载接在电源两端均可,注意继电器的正负极性不得接反。
- 负载电源电压最大不超过60Vd.c.,负载电源尖峰电压不大于75Vd.c.。

Note:

- When the load is an inductive load, a freewheeling diode should be connected in parallel at both ends of the load.
- When the output end of the relay is connected in series with the load circuit, the load can be connected to both ends of the power supply. Note that the positive and negative polarities of the relay must not be reversed.
- The maximum load power supply voltage does not exceed 60Vd.c., and the peak voltage of the load power supply does not exceed 75Vd.c.