

描述 / Descriptions

快恢复二极管, 反向电压: 50V~1000V, 正向电流: 2.0A, SMB 封装。

Surface Mount Fast Recovery Rectifiers, Reverse Voltage: 50 to 1000V, Forward Current: 2.0A, SMB package.

特征 / Features

玻璃钝化芯片, 反向恢复时间快, 无铅符合欧盟 RoHS 指令 2011/65/EU, 适用表面贴装。无卤产品。

Glass Passivated Chip Junction, Fast reverse recovery time, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. Halogen free product.

用途 / Applications

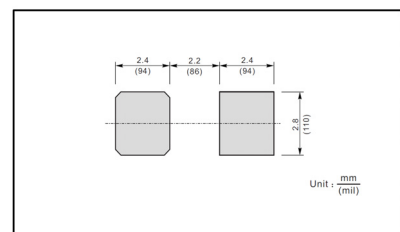
一般用途。

General purpose.

内部等效电路 / Equivalent Circuit**引脚排列 / Pinning**

PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size

**印章代码 / Marking**

见印章说明。See Marking Instructions.

极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating							单位 Unit
		RS2AB	RS2BB	RS2DB	RS2GB	RS2JB	RS2KB	RS2MB	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	60							A
Typical Junction Capacitance at VR=4V, f=1MHz	C _j	28							pF
Typical Thermal Resistance ¹⁾	R _{θ JA}	60							°C/W
	R _{θ JC}	20							
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150							°C

Note:

1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating							单位 Unit
			RS2AB	RS2BB	RS2DB	RS2GB	RS2JB	RS2KB	RS2MB	
Maximum Instantaneous Forward Voltage	V_F	$I_F=2.0A$	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ C$	5.0							μA
		$T_a=125^\circ C$	100							μA
Maximum Reverse Recovery Time ²⁾	t_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$	150				250	500		ns

电参数曲线图 / Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

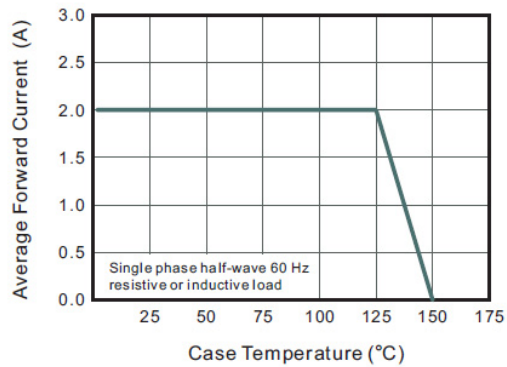


Fig.2 Typical Reverse Characteristics

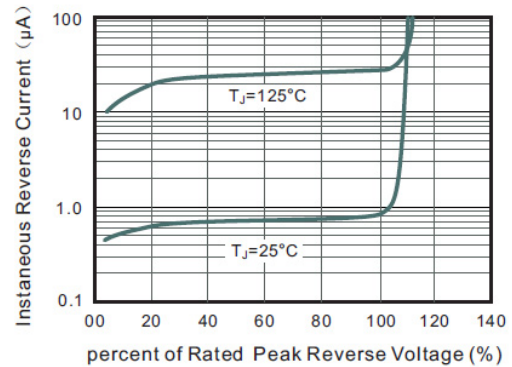


Fig.3 Typical Instantaneous Forward Characteristics

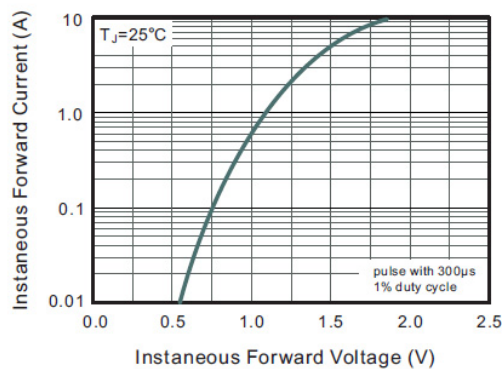


Fig.4 Typical Junction Capacitance

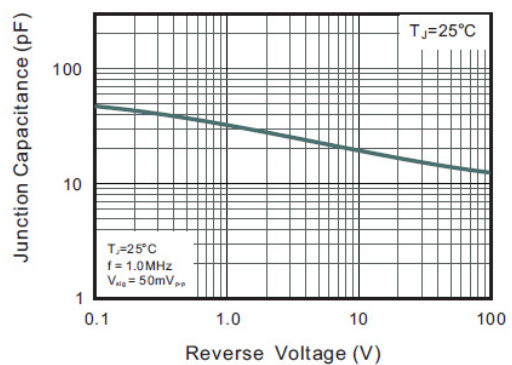
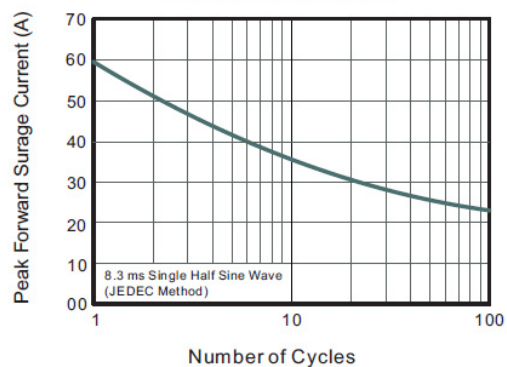
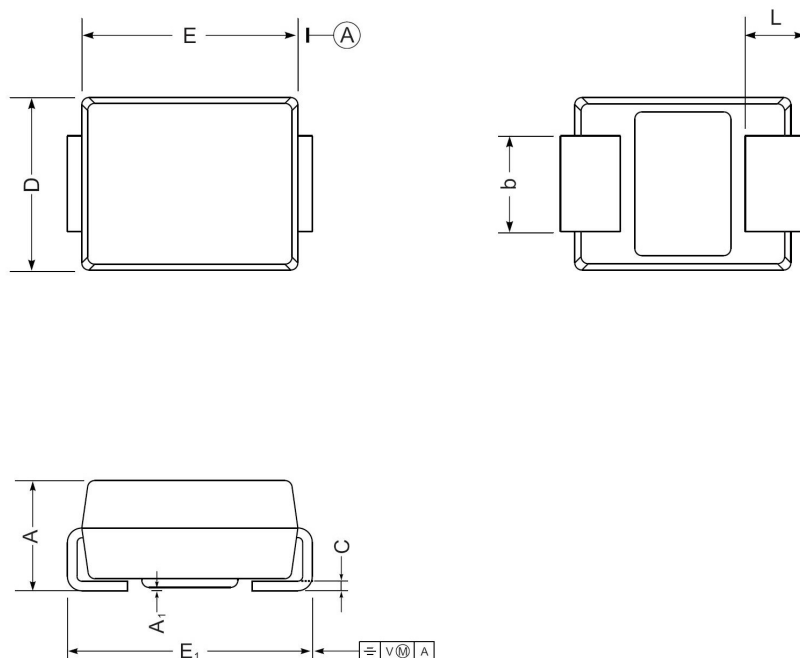


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



外形尺寸图 / Package Dimensions

SMB



SMB mechanical data

UNIT		A	E	D	E ₁	A ₁	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305	2.2
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

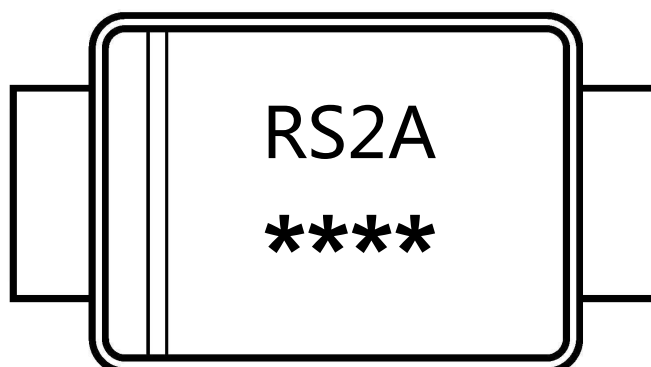


Marking

Type number	Marking code
RS2AB	RS2A
RS2BB	RS2B
RS2DB	RS2D
RS2GB	RS2G
RS2JB	RS2J
RS2KB	RS2K
RS2MB	RS2M



印章说明 / Marking Instructions



说明：

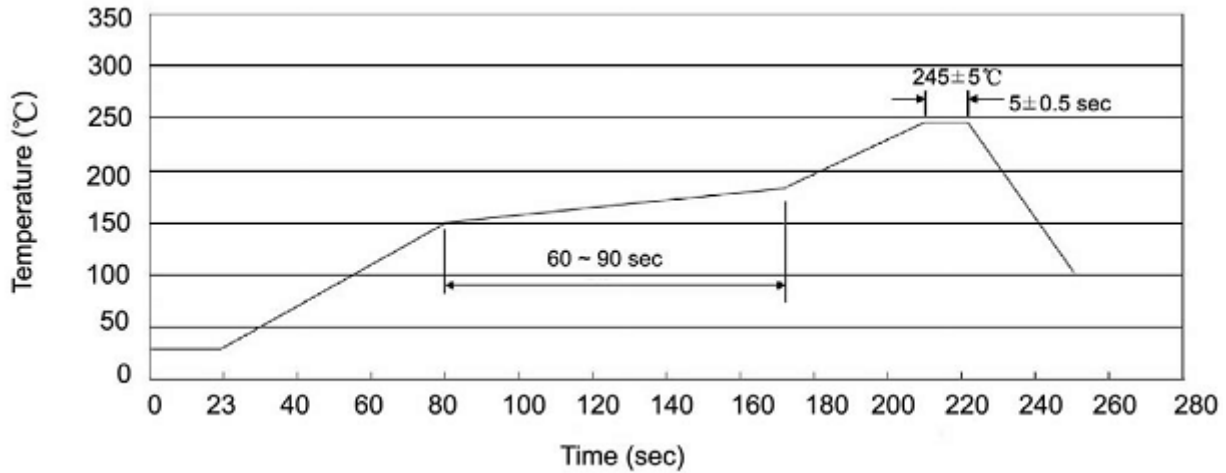
RS2A： 为型号代码

****： 为生产批号追溯码，第 1 个*为年月代码，后面 3 个*为当月小批号代码

Note:

RS2A： Product Type Code

****： Lot No. Code ,The 1st * means:YM Code ,The last 3 * means:little Lot No Code

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)


说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SMB	3000	5	15000	5	75000	7" ×11	185X180X105	390X385X205

使用说明 / Notices