

	! " #	\$! % & '	! () % * +	, -	. /
A	2018-10-19		0 1 - 2	3 4 5	
B	2021-6-7	4/7	6 7 8 9 : ; < b 8 9 = > ? @ A B C D : = > ? E F G H 5 I 50000 J K L M N 7 I 70000 J O 340X340X40、350X350X230 M N 336X336X40、380X335X366	P Q	R 4 S

描述 / Descriptions

T U V F W A X Y Z O [\] ^ _ 2000V O ` \] A _ 1.0A OSMA a F b
Surface Mount General Purpose Silicon Rectifiers, Reverse Voltage _ 2000V, Forward
Current: 1.0A ,SMA package.

特征 / Features

c d e f g h O i j k l m n RoHS o p 2011/65/EU O q r T U V F b i s t u b
Glass Passivated Chip Junction, Lead free in comply with EU RoHS 2011/65/EU directives, For
surface mounted applications. HF product.

用途 / Applications

v w r x .
General purpose.

内部等效电路 / Equivalent Circuit



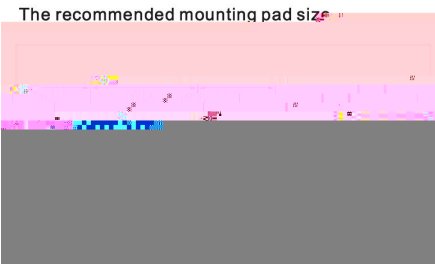
引脚排列 / Pinning

1



2

PIN	DESCRIPTION
1	Cathode
2	Anode



印章代码 / Marking

y z { | } b See Marking Instructions.

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	2000	V
Maximum Average Forward Rectified Current at $T_C = 100\text{ }^{\circ}\text{C}$	$I_F (AV)$	1.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	I_{FSM}	30	A
Typical Junction Capacitance ¹⁾	C_j	20	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	95	$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150	$^{\circ}\text{C}$

Note:

- 1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

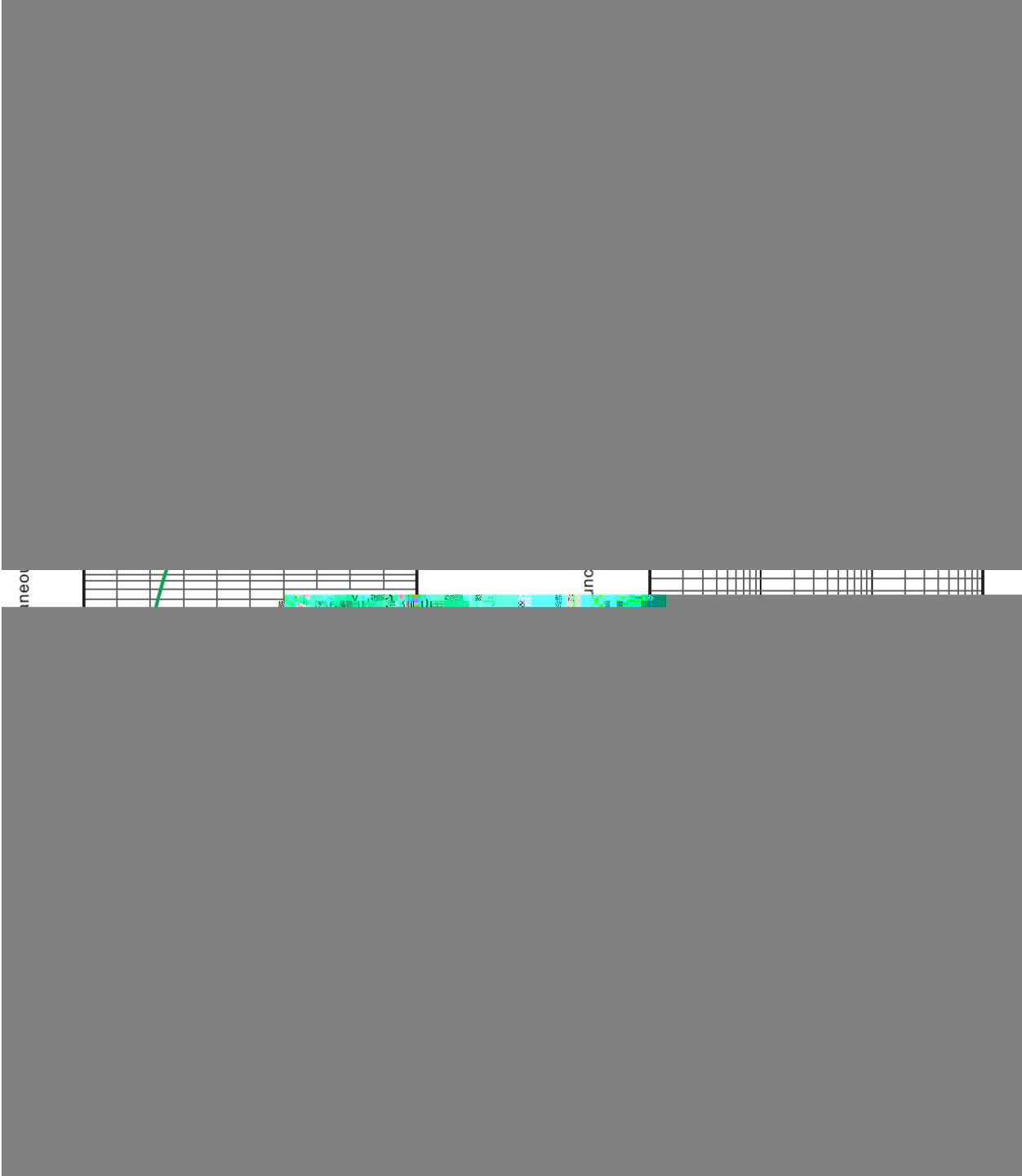
参数 Parameter	符号 Symbol	测试条件 Test Condition	θ		
		+			m

电参数曲线图 / Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve



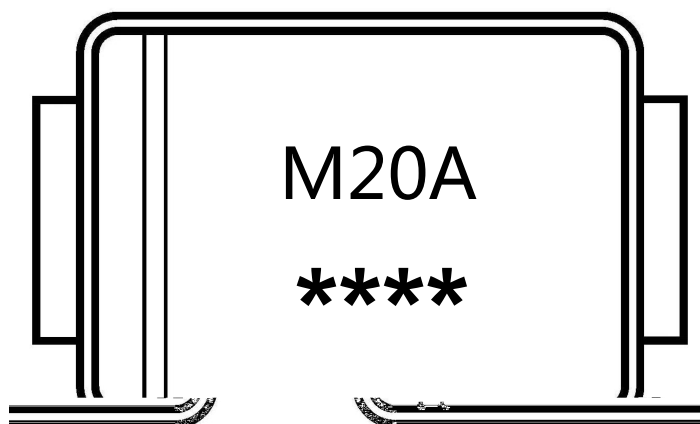
Fig.2 Typical Reverse Characteristics



SMA



印章说明 / Marking Instructions



M20A

1 *

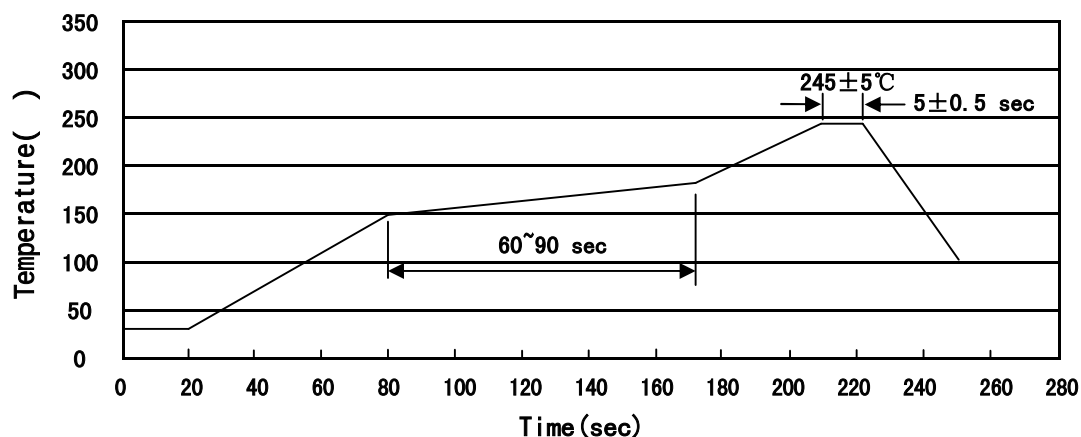
3 *

Note:

M20A 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)



Note:

- | | | | |
|---|-------------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

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

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

包装规格 / Packaging SPEC.

/ 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
SMA	5000	2	10000	7	70000	13" ×12	336X336X40	380X335X366

使用说明 / Notices