### Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 2000 V

Forward Current - 1 A

### **FEATURES**

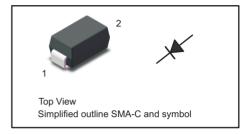
- For surface mounted applications
- · Low profile package
- Glass Passivated Chip Juntion
- · Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICAL DATA**

- · Case: SMA-C
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

### **PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



### Maximum Ratings and Electrical characteristics

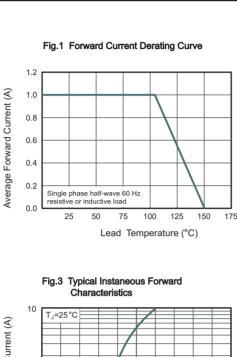
Ratings at 25 °C ambient temperature unless otherwise specified.

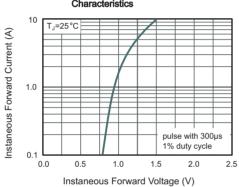
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

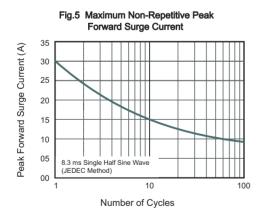
Parameter	Symbols	M20A	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	2000	V
Maximum RMS voltage	$V_{RMS}$	1400	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	2000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30	А
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1	V
Maximum Reverse Current $T_J = 25  ^{\circ}\text{C}$ $T_J = 125  ^{\circ}\text{C}$	I <sub>R</sub>	5 50	μΑ
Typical Junction Capacitance (1)	C <sub>j</sub>	6	pF
Typical Thermal Resistance (2)	R <sub>0JA</sub> R <sub>0JL</sub>	90 20	°C/W
Operating and Storage Temperature Range	$T_{j}, T_{stg}$	-55 ~ <b>+</b> 150	°C

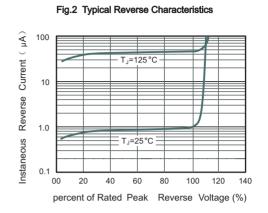
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

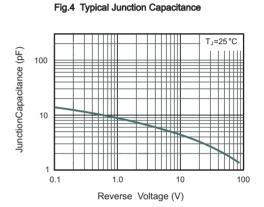
<sup>2)</sup> P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.









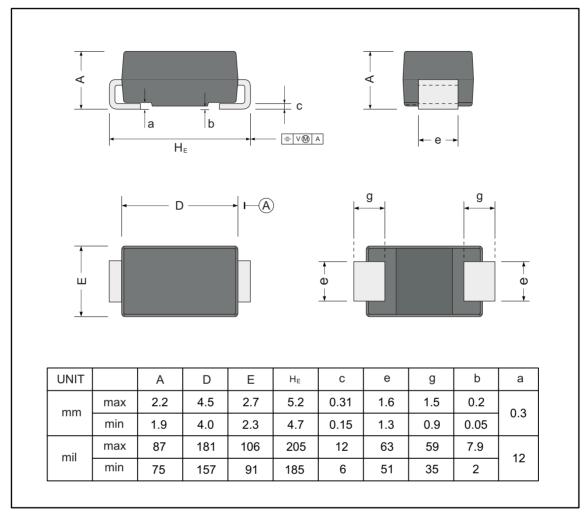




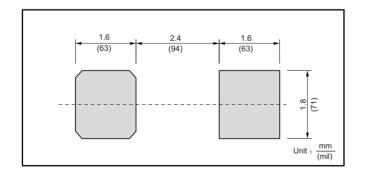
# PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





## The recommended mounting pad size



# Marking

Type number	Marking code		
M20A	M20A		

# 文件履历表

				入     /			
序号	制/修订日期	生效日期	版次	修订内容	变更原因	制/修订人	备注
01	2023. 6. 24	2023. 6. 26	Rev 1.1	初版制定	/	郭金铮	

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