

2A, 20V - 40V Surface Mount Schottky Barrier Rectifiers

FEATURES

- Very low profile typical height of 0.68mm
- Low power loss, high efficiency
- Ideal for automated placement
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



Micro SMA







MECHANICAL DATA

Case: Micro SMA

Molding compound, UL flammability classification rating 94V-0

Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Indicated by cathode band **Weight:** 0.006 g (approximately)

PARAMETER	SYMBOL	SS22M	SS23M	SS24M	UNIT
Marking code		D	Е	F	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum average forward rectified current	I _{F(AV)}	2		Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	25		А	
Maximum instantaneous forward voltage (Note 1) @ 2.0A / T _J =25°C @ 2.0A / T _J =125°C	V _F	0.60 0.55			V
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R	150 15		μA mA	
Typical junction capacitance (Note 2)	CJ		35		pF
Typical thermal resistance	$egin{array}{c} R_{ heta JL} \ R_{ heta JC} \ R_{ heta JA} \end{array}$	15 20 105		°C/W	
Operating junction temperature range	TJ	-55 to +150		°C	
Storage temperature range	T _{STG}	-55 to +150		°C	

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.



ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
SS2xM (Note 1, 2)	Н	RS	G	Micro SMA	3,000 / 7" Plastic reel

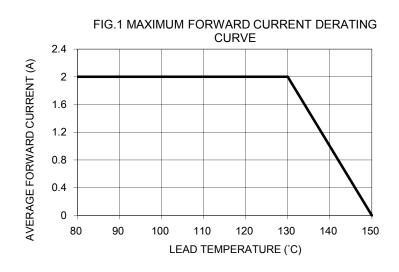
Note 1: "x" defines voltage from 20V (SS22M) to 40V (SS24M)

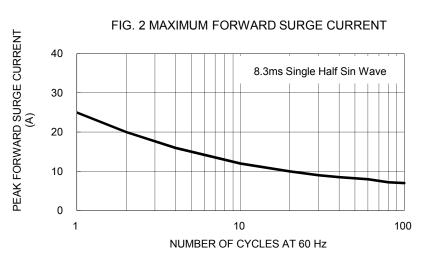
Note 2: Whole series with green compound

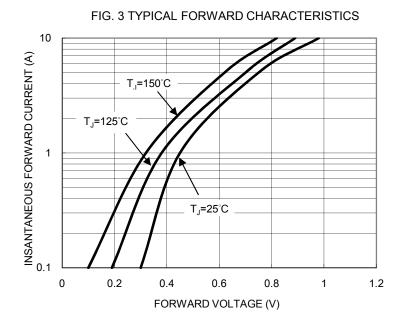
EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SS24MHRSG	SS24M	Н	RS	G	AEC-Q101 qualified Green compound

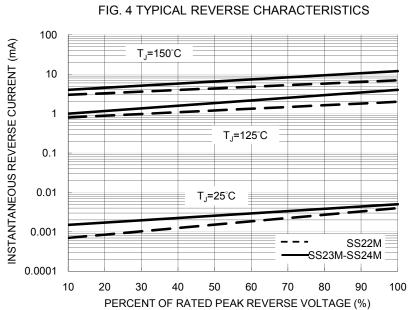
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









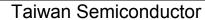




FIG. 5 TYPICAL JUNCTION CAPACITANCE

1000

(b)
100

100

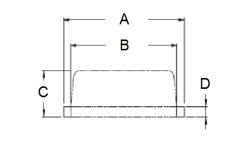
100

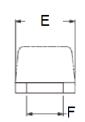
REVERSE VOLTAGE (V)

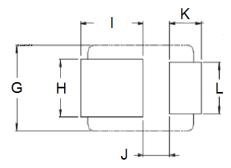
T-PULSE DURATION(s)

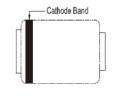
PACKAGE OUTLINE DIMENSIONS

Micro SMA



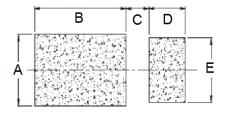






DIM.	Unit	(mm)	Unit (inch)	
DIW.	Min	Max	Min	Max
Α	2.30	2.70	0.091	0.106
В	2.10	2.30	0.083	0.091
С	0.63	0.73	0.025	0.029
D	0.10	0.20	0.004	0.008
Е	1.15	1.35	0.045	0.053
F	0.65	0.85	0.026	0.034
G	1.15	1.35	0.045	0.053
Н	0.75	0.95	0.030	0.037
I	1.10	1.50	0.043	0.059
J	0.55	0.75	0.022	0.030
K	0.55	0.75	0.022	0.030
Ĺ	0.65	0.85	0.026	0.034

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.1	0.043
В	2.0	0.079
С	0.5	0.020
D	0.8	0.031
E	1.0	0.039

MARKING DIAGRAM



P/N = Marking code YW = Date Code





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