

1A, 50V - 1000V Surface Mount Rectifier

FEATURES

- Glass passivated junction chip
- Ideal for automated placement
- Low-Profile Package
- Low power loss, high efficiency
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition







Sub SMA

MECHANICAL DATA

Case: Sub SMA

Molding compound, UL flammability classification rating 94V-0 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:** 0.019 g (approximately)

UNIT
V
V
V
A
А
V
μA
pF
μs
°C/W
°C
°C

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

Note 2: Measured at 1 MHz and Applied VR=4.0 Volts.

Note 3: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A



Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
	SUFFIX		SUFFIX		
	Н	RU	G	Sub SMA	1,800 / 7" Plastic reel (8mm tape)
		RV		Sub SMA	3,000 / 7" Plastic reel (8mm tape)
		RT		Sub SMA	7,500 / 13" Paper reel (8mm tape)
		MT		Sub SMA	7,500 / 13" Plastic reel (8mm tape)
		RQ		Sub SMA	10,000 / 13" Paper reel (8mm tape)
S1xL		MQ		Sub SMA	10,000 / 13" Plastic reel (8mm tape)
(Note 1)		R3		Sub SMA	1,800 / 7" Plastic reel (12mm tape)
		RF		Sub SMA	3,000 / 7" Plastic reel (12mm tape)
		R2		Sub SMA	7,500 / 13" Paper reel (12mm tape)
		M2		Sub SMA	7,500 / 13" Plastic reel (12mm tape)
		RH		Sub SMA	10,000 / 13" Paper reel (12mm tape)
		MH		Sub SMA	10,000 / 13" Plastic reel (12mm tape)

Note 1: "x" defines voltage from 50V (S1AL) to 1000V (S1ML)

EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
S1MLHRUG	S1ML	Н	RU	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES (T_A=25°C unless otherwise noted)

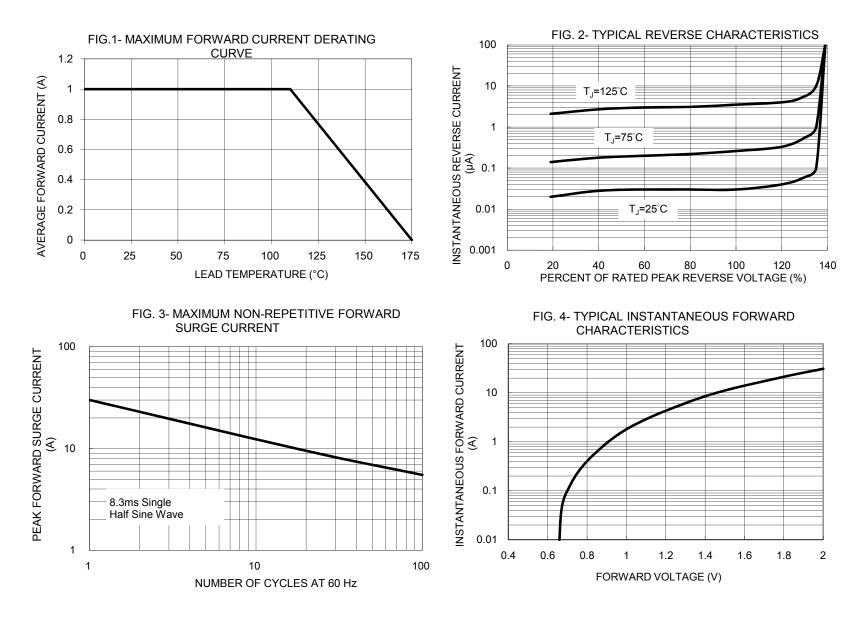
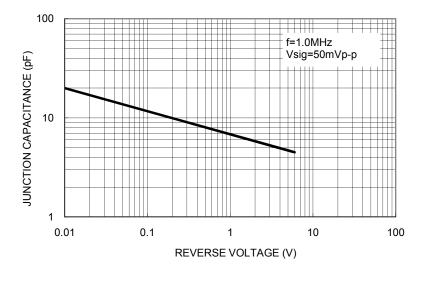


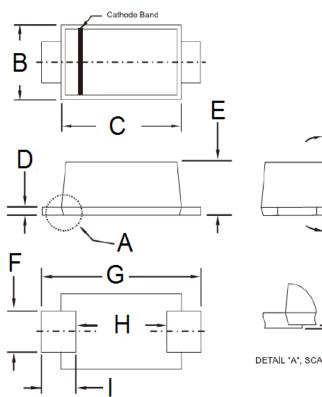


FIG. 5- TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

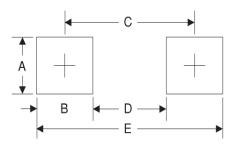
Sub SMA



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
В	1.70	1.90	0.067	0.075
С	2.70	2.90	0.106	0.114
D	0.16	0.30	0.006	0.012
Е	1.23	1.43	0.048	0.056
F	0.80	1.20	0.031	0.047
G	3.40	3.80	0.134	0.150
Н	2.45	2.60	0.096	0.102
I	0.35	0.85	0.014	0.033
J	0.00	0.10	0.000	0.004

DETAIL "A", SCALE=20/1

SUGGESTED PAD LAYOUT



P/N G

YW

F

Symbol	Unit (mm)	Unit (inch)
А	1.4	0.055
В	1.2	0.047
С	3.1	0.122
D	1.9	0.075
E	4.3	0.169

MARKING DIAGRAM

P/N GYWF

= Marking	Code
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- = Green compound Code
- = Date Code
- = Factory Code



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S1AL S1BL S1DL S1GL S1JL S1KL S1ML S1AL R2 S1BL R2 S1KL R2 S1DL R2 S1GL R2 S1DL RQG S1JL R3 S1ALHR2G S1DL R2G S1GLHR3 S1GLHR3G S1JL R3G S1ALHR3G S1JLHR2 S1ALHRQ S1AL R2G S1DL R3G S1AL RQ S1JLHR2G S1JLHR3 S1JL R2G S1BLHR2G S1BL RQ S1AL R3 S1JLHR3G S1GLHR2 S1GLHRQG S1DLHR3G S1GLHR2G S1JLHRQG S1DLHRQG S1DL R3 S1BLHR3 S1BL RQG S1GL RQ S1GL R2G S1JL RQG S1BL R3G S1DLHRQ S1JL RQ S1GL RQG S1DL RQ S1BLHR2G S1GL R3G S1AL RQG S1AL R3G S1ALHRQG S1DLHR2G S1MLHRQ S1JL RQ S1GL RQG S1DL RQ S1BLHR2G S1MLHR2 S1MLHR3G S1KLHR3G S1KL RQG S1ML RQ S1ML R3 S1ML R2G S1MLHR2G S1MLHR2 S1KLHR2 S1MLHR3G S1KLHR3G S1KL RQG S1ML RQ S1MLHRQG S1KLHRQG S1KLHR2G S1ML R3G S1KL R2G S1AL R3G S1ALHRQG S1BL R3G S1BLHR3G S1BLHRQ S1MLHRQG S1KLHR2G S1MLHR2 S1MLHR3G S1KLHR3G S1KL RQG S1ML RQ S1ML R3G S1KLHRQG S1KLHR2G S1MLHR2G S1ML R3G S1AL RVG S1ALHRVG S1DL R3G S1DL RVG S1DL RVG S1DLHRUG S1DLHRVG S1JLHRTG S1JLHRVG S1DL RTG S1DL RUG S1DL RVG S1DLHRTG S1DLHRUG S1DLHRVG S1MLHRVG S1MLHRVG S1GL RUG S1GLHRUG S1JL M2G S1JL R1G S1JL RUG S1JL RVG S1MLHRVG S1MLHRVG