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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2A, 40V - 200V Surface Mount Schottky Barrier Rectifiers

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guard ring for over-voltage protection
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21







HALOGEN

FREE

SOD-123W

MECHANICAL DATA

Case: SOD-123W

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: 16 mg (approximately)

DADAMETED	SYMBOL	SS24	SS26	SS210	SS215	SS220	UNIT
PARAMETER		LW	LW	LW	LW	LW	
Marking Code		24LW	26LW	20LW	2ALW	2BLW	
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	60	100	150	200	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}	50			А		
Maximum instantaneous forward voltage (Note 1) @ 2 A	V _F	0.55	0.70	0 0.85 0.95		95	V
Maximum reverse current @ rated V _R T _J =25°C	I _R	200 20 10		0	μA		
Typical thermal resistance	$R_{ heta J A}$	25 80		°C/W			
Operating junction temperature range	T_J	- 55 to +125 - 55 to +150			°C		
Storage temperature range	T _{STG}	- 55 to +125 - 55 to +150			°C		

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





ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
SS2xLW			G	SOD-123W	3,000 / 7" Plastic reel
(Note 1, 2)	H	RQ	9	30D-123VV	10,000 / 13" Paper reel

Note 1: "x" defines voltage from 40V (SS24LW) to 200V (SS220LW)

Note 2: Whole series with green compound (halogen-free)

EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SS24LWHRVG	SS24LW	Н	RV	G	AEC-Q101 qualified Green compound

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



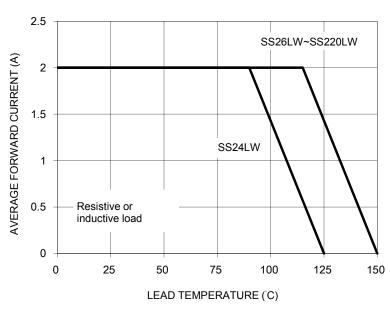
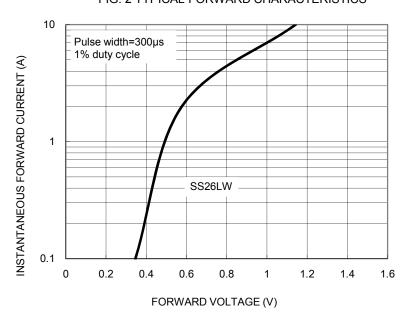


FIG. 2 TYPICAL FORWARD CHARACTERISTICS



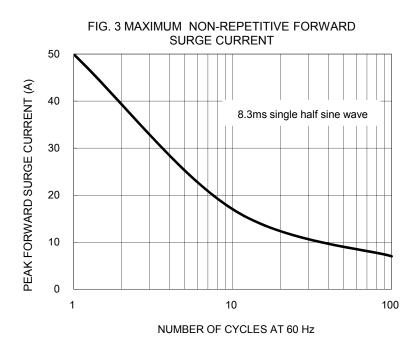


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

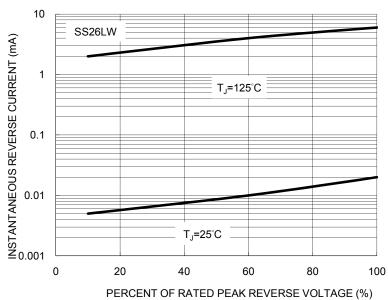
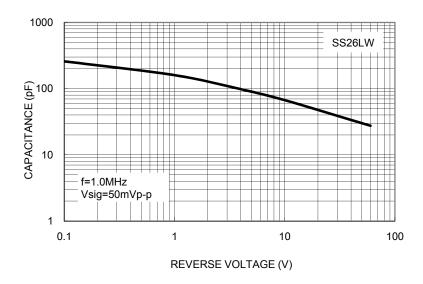


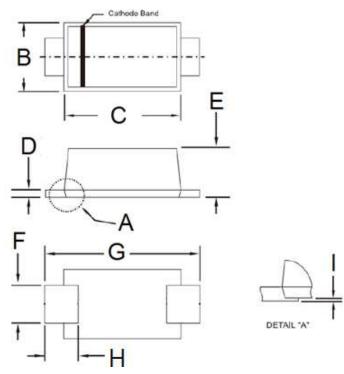


FIG. 5 TYPICAL JUNCTION CAPACITANCE



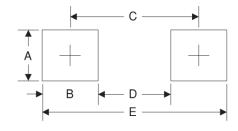
PACKAGE OUTLINE DIMENSIONS

SOD-123W



DIM.	Unit	(mm)	Unit (inch)		
DIW.	Min	Max	Min	Max	
В	1.70	1.90	0.067	0.075	
С	2.60	2.90	0.102	0.114	
D	0.10	0.22	0.004	0.009	
Е	0.90	1.02	0.035	0.040	
F	0.90	1.05	0.035	0.041	
G	3.60	3.80	0.142	0.150	
Н	0.50	0.85	0.020	0.033	
Ī	0.00	0.10	0.000	0.004	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	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 = Marking Code

G = Green compound Code

YW = Date Code F = Factory Code



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