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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.

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3A, 20V - 40V Surface Mount Schottky Barrier Rectifier

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

APPLICATIONS

- Switching mode power supply (SMPS)
- Adapters
- Lighting application
- Converter

MECHANICAL DATA

- Case: DO-214AB (SMC)
- Molding compound meets UL 94V-0 flammability rating
- Part no. with suffix "H" means AEC-Q101 qualified
- Packing code with suffix "G" means green compound (halogen-free)
- Moisture sensitivity level: level 1, per J-STD-020
- Terminal: Matte tin plated leads, solderable per J-STD-002
- Meet JESD 201 class 2 whisker test
- Polarity: As marked
- Weight: 0.21 g (approximately)

KEY PARAMETERS					
PARAMETER	VALUE	UNIT			
I _{F(AV)}	3	Α			
V_{RRM}	20 - 40	V			
I _{FSM}	100	Α			
T _{J MAX}	125	°C			
Package	DO-214AB (SMC)				
Configuration	Single die				





DO-214AB (SMC)

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise noted)					
PARAMETER	SYMBOL	SSL32	SSL33	SSL34	UNIT
Marking code on the device		SL32	SL33	SL34	
Repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Reverse voltage, total rms value	$V_{R(RMS)}$	14	21	28	V
Maximum DC blocking voltage	V_{DC}	20	30	40	V
Forward current	I _{F(AV)}		3		Α
Surge peak forward current, 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	100		А	
Junction temperature	T _J	- 55 to +125		°C	
Storage temperature	T _{STG}	- 55 to +150			°C

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THERMAL PERFORMANCE					
PARAMETER	SYMBOL	LIMIT	UNIT		
Junction-to-lead thermal resistance per diode	R _{eJL}	17	°C/W		
Junction-to-ambient thermal resistance per diode	R _{eJA}	55	°C/W		

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP.	MAX.	UNIT
Forward voltage per diode (1)		$I_F = 3A, T_J = 25^{\circ}C$	V _F	-	0.41	V
Reverse current @ rated V_R per diode $^{(2)}$	SSL32 SSL33	T _J = 25°C		-	0.2	mA
	SSL34			-	0.5	mA
	SSL32 SSL33	T _J = 100°C	- I _R	-	50	mA
	SSL34			-	100	mA

Notes:

- 1. Pulse test with PW=0.3 ms
- 2. Pulse test with PW=30 ms

ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
		R7		SMC	850 / 7" Plastic reel
001.0	I H I M6 I G	SMC	3,000 / 13" Paper reel		
SSL3x (Note 1)		SMC	3,000 / 13" Plastic reel		
(Note 1)	V7		Matrix SMC	850 / 7" Plastic reel	
	V6		Matrix SMC	3,000 / 13" Plastic reel	

Note:

1. "x" defines voltage from 20V (SSL32) to 40V (SSL34)

EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SSL32HR7G	SSL32	Н	R7	G	AEC-Q101 qualified Green compound



CHARACTERISTICS CURVES

(T_A = 25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

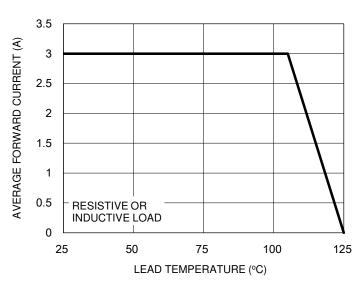


Fig.2 Typical Junction Capacitance

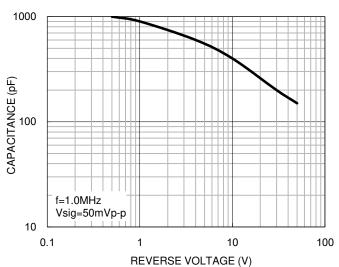


Fig.3 Typical Reverse Characteristics

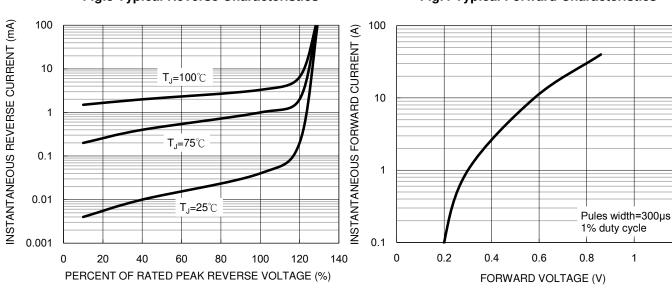


Fig.4 Typical Forward Characteristics

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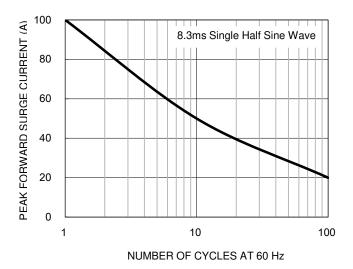
1.2



CHARACTERISTICS CURVES

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

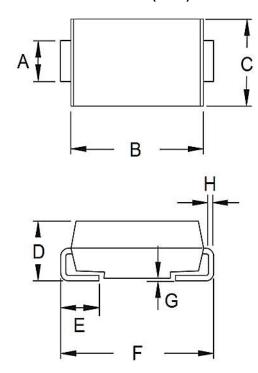
Fig.5 Maximum Non-repetitive Forward Surge Current





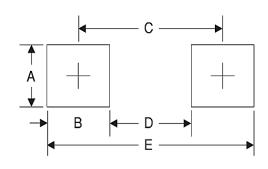
PACKAGE OUTLINE DIMENSIONS

DO-214AB (SMC)



DIM. Unit (mm)		(mm)	Unit (inch)	
DIW.	Min.	Max.	Min.	Max.
Α	2.90	3.20	0.114	0.126
В	6.60	7.11	0.260	0.280
С	5.59	6.22	0.220	0.245
D	2.00	2.62	0.079	0.103
E	1.00	1.60	0.039	0.063
F	7.75	8.13	0.305	0.320
G	0.10	0.20	0.004	0.008
Н	0.15	0.31	0.006	0.012

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	3.30	0.130
В	2.50	0.098
С	6.80	0.268
D	4.40	0.173
E	9.40	0.370

MARKING DIAGRAM



P/N =Marking Code =Green Compound G

ΥW =Date Code F =Factory Code





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