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2A, 20V - 150V 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



DO-214AC (SMA)





MECHANICAL DATA

Case: DO-214AC (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:** 0.07 g (approximately)

PARAMETER		SYMBOL	SK	SK	SK	SK	SK	SK	SK	SK	UNIT
			22A	23A	24A	25A	26A	29A	210A	215A	
Maximum repetitive peak reverse voltage		V_{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	90	100	150	V
Maximum average forward rectified currer	nt	I _{F(AV)}				2	2				Α
Peak forward surge current, 8.3 ms single superimposed on rated load	half sine-wave	I _{FSM}				5	0				А
Maximum instantaneous forward voltage (@ 2 A	Note 1)	V _F		0.50		0.	70	0.	85	0.95	V
-	T _J =25°C				0.5				0.1	•	
Maximum reverse current @ rated V _R	T _J =100°C	I _R		10			-			mA	
	T _J =125°C				- 2.0						
Voltage Rate of Change (Rated V _R)		dV/dt				100	000				V/µs
Non-repetitive peak reverse avalanche energy L=40mH max prior to surge, Inductive load switched off		E _{RSM}				2	0				mJ
Typical thermal resistance		$R_{\theta JA}$				8	8				°C/W
Operating junction temperature range		TJ		- 55 to	+125			- 55 to	o +150		°C
Storage temperature range		T _{STG}				- 55 to	+150				°C

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

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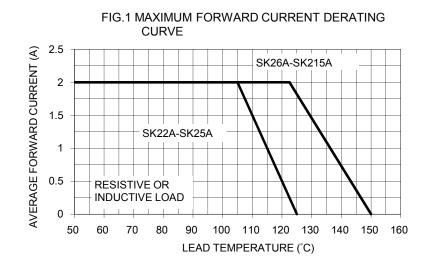
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING
SK2xxA (Note 1)		R3		SMA	1,800 / 7" Plastic reel
	R2		SMA	7,500 / 13" Paper reel	
		M2		SMA	7,500 / 13" Plastic reel
	ш	F3		Folded SMA	1,800 / 7" Plastic reel
	F2	G	Folded SMA	7,500 / 13" Paper reel	
		F4		Folded SMA	7,500 / 13" Plastic reel
		E3		Clip SMA	1,800 / 7" Plastic reel
		E2		Clip SMA	7,500 / 13" Plastic reel

Note 1: "xx" defines voltage from 20V (SK22A) to 150V (SK215A)

^{*:} Optional available

EXAMPLE					
EXAMPLE PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SK26AHR3G	SK26A	Н	R3	G	AEC-Q101 qualified Green compound

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



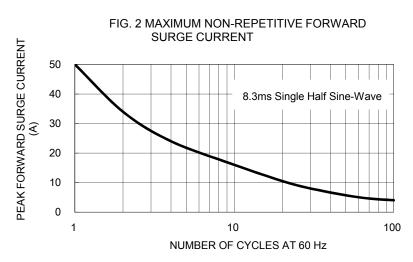
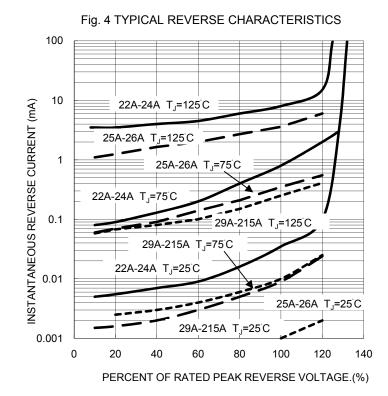


FIG. 3 TYPICAL FORWARD CHARACTERISTICS 100 INSTANTANEOUS FORWARD CURRENT (A) SK22A-SK24A 10 1 SK29A-SK210A SK25A-SK26A 0.1 PULSE WIDTH=300µs 1% DUTY CYCLE 0.01 0.1 0.3 0.7 0.9 1.1 1.3 1.5 FORWARD VOLTAGE (V)



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FIG. 5 TYPICAL JUNCTION CAPACITANCE

1000

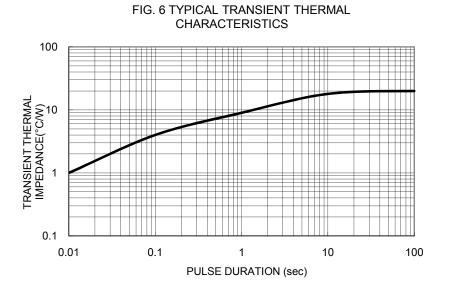
SK22A-SK26A

SK29A-SK215A

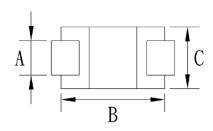
0.1

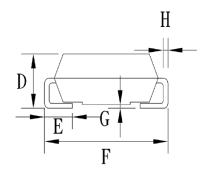
10

REVERSE VOLTAGE (V)



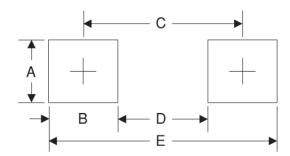
PACKAGE OUTLINE DIMENSIONS DO-214AC (SMA)





DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Min Max		Max	
Α	1.27	1.58	0.050	0.062	
В	4.06	4.60	0.160	0.181	
С	2.29	2.83	0.090	0.111	
D	1.99	2.50	0.078	0.098	
Е	0.90	1.41	0.035	0.056	
F	4.95	5.33	0.195	0.210	
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	1.68	0.066
В	1.52	0.060
С	3.93	0.155
D	2.41	0.095
E	5.45	0.215

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YW = Date Code F = Factory Code





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