SK32A - SK320A



3.0AMPS Surface Mount Schottky Barrier Rectifiers **SMA/DO-214AC**

Features

- ♦ Low power loss, high efficiency
- ♦ Metal to silicon rectifier, majority carrier conduction
- High surge current capability, Low VF, Easy pick and place
- Plastic material used carriers Underwriters Laboratory Classigication 94V-0
- ♦ Epitaxial construction
- ♦ Guard-ring for transient protection
- ♦ High temperature soldering guaranteed: 260°C/10s at terminals
- ♦ Meet MSL level 1, per J-STD-020D lead free, maximum peak of 260°C
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: SMA/DO-214AC
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Indicated by cathode band
- ♦ Packaging: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.07 gram

Ordering Information (example)

Part No.	Package	Packing	Packing code	Green Compound Packing code	
SK32A	SMA	1.8K / 7" REEL	R3	R3G	

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	SK 32A	SK 33A	SK 34A	SK 35A	SK 36A	SK 39A	SK 310A	SK 315A	SK 320A	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}					3					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load		70							А		
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A	V _F		0.55		0.	75	0.	85	0.	95	V
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}\mathrm{C}$		0.5									
T _A =100 ℃	I_R		10 5.0		.0	-			mA		
T _A =125℃				-				0	.5		
Typical Junction Capecitance (Note 2)		600 290 110			pF						
Typical Thermal Resistance		28 88							°C/W		
Operating Temperature Range		- 65 to + 150							оС		
Storage Temperature Range		- 65 to + 150							οС		

Note 1: Pulse Test with PW=300 usec, 1% Duty Cylcle

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



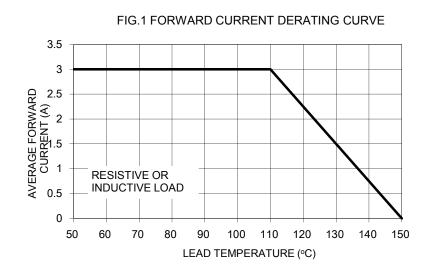


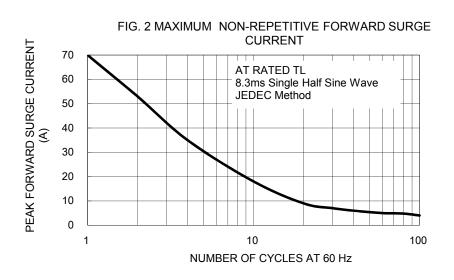


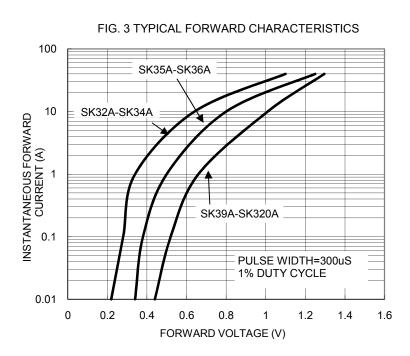


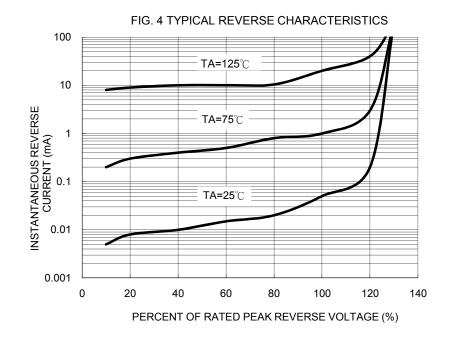


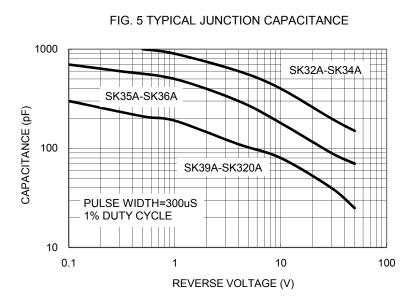
RATINGS AND CHARACTERISTIC CURVES (SK32A THRU SK320A)

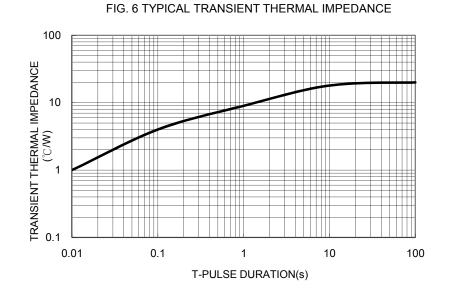












Version:L12

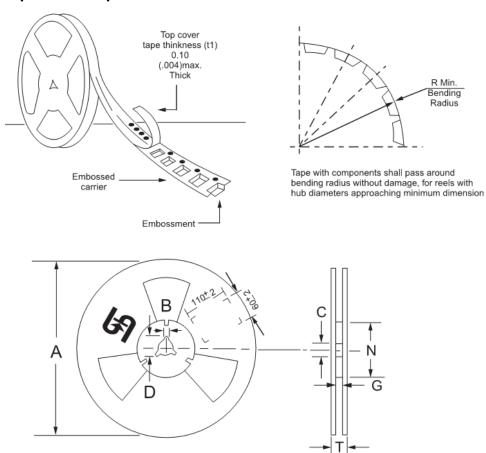


Ordering information

Part No.	Package	Packing	Packing code	Green Compound Packing code
	SMA	1.8K / 7" REEL	R3	R3G
SK3XA (Note)	SMA	7.5K / 13" REEL	R2	R2G
	SMA	7.5K / 13" REEL	M2	M2G
	Folded SMA	1.8K / 7" REEL	F3	F3G
	Folded SMA	7.5K / 13" REEL	F2	F2G
	Folded SMA	7.5K / 13" REEL	F4	F4G
	C SMA	1.8K / 7" REEL	E3	E3G
	C SMA	7.5K / 13" REEL	E2	E2G

Note: "x" is Device Code from "2" thru "20".

Tape & Reel specification

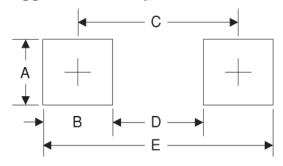


Reel Size Tape Size	Tana Siza	Α	В	С	D	N	G	Т
	Tape Size	±2.0	±0.4	+0.5;-0.2	min	±1.0	+0.8;-0	max
7"	12mm	178	1.9	13	21	62	12.2	14.6
Reel Size	Tape Size	Α	В	С	D	N	G	Т
		max	±0.5	±0.5	min	±0.5	+2.0;-0	max
13"	12mm	330	2	13	20.2	75	12.4	18.4

Unit (mm)

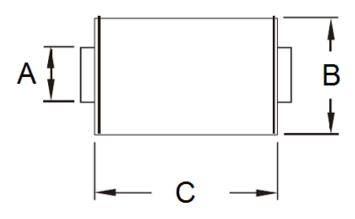


Suggested PAD Layout

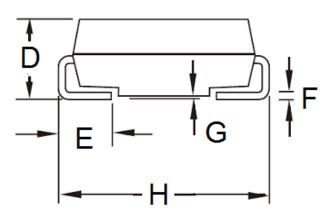


Symbol	Unit(mm)		
Α	1.78		
В	1.51		
С	3.92		
D	2.41		
Е	4.43		

Package Outline Dimensions



DIM.	Unit	(mm)	Unit(inch)			
	Min	Max	Min	Max		
Α	1.27	1.58	0.050	0.062		
В	2.29	2.83	0.090	0.111		
С	4.06	4.60	0.160	0.181		
D	1.99	2.50	0.078	0.098		
Е	0.90	1.41	0.035	0.056		
F	0.15	0.31	0.006	0.012		
G	0.10	0.20	0.004	0.008		
Н	4.95	5.33	0.195	0.210		



Marking Diagram



P/N = Specific Device Code G = Green Compound YW = Date Code