- riigh surge current capability
- 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

MECHANICAL DATA

Case: DO-214AB (SMC) Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified Terminal: Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test with prefix "H" on packing code meet JESD 201 class 2 whisker test Polarity: Indicated by cathode band Weight: 0.21 g (approximately)





DO-214AB (SMC)

R

	SYMBOL	SK	SK	SK	SK	SK
PARAMETER		82C	83C	84C	85C	86C
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60
Maximum RMS voltage	V _{RMS}	14	21	28	35	42
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60
Maximum average forward rectified current	I _{F(AV)}			ł	8	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				
Maximum instantaneous forward voltage (Note 1) I _F = 8 A	V _F	0.55 0.75		75		
Maximum reverse current @ rated VR T_J =25 $^\circ$ C	١ _R	0.5				
T _J =100°C		15			10	
Voltage rate of change (Rated V _R)	dV/dt	10000				
Typical thermal resistance	R _{θJA}	20				
Operating junction temperature range	TJ	-55 to +125 -55 to			-55 to +1	
Storage temperature range	T _{STG}	- 55 to +150				

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

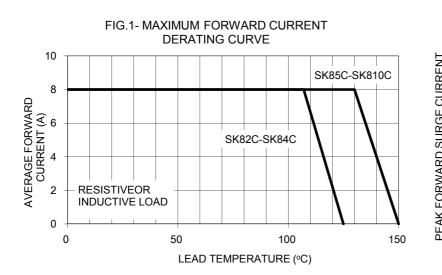
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Note 1: "xx" defines voltage from 20V (SK82C) to 100V (SK810C)

EX	EXAMPLE							
PRI	EFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESC		
	SK86C R7	SK86C		R7				
:	SK86C R7G	SK86C		R7	G	Green		
	SK86CHR7	SK86C	Н	R7		AEC-Q		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



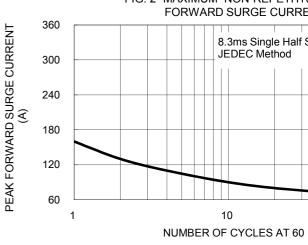
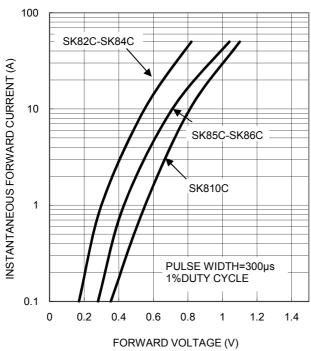
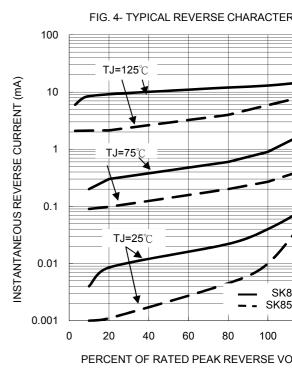


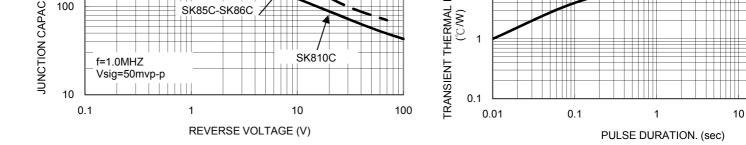
FIG. 2- MAXIMUM NON-REPETITIN

FIG. 3- TYPICAL FORWARD CHARACTERISTICS

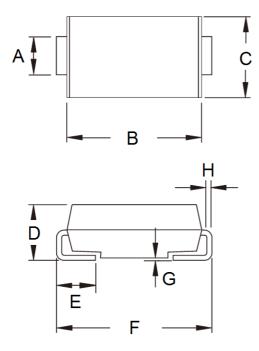




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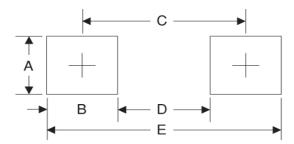


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min Max		Min	Max	
А	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	
Е	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



P/N

G

F

YW

Symbol	Unit (mm)	Unit (inch)
A	3.3	0.130
В	2.5	0.098
С	6.8	0.268
D	4.4	0.173
E	9.4	0.370

MARKING DIAGRAM



- = Specific Device Code
 - = Green Compound
 - = Date Code
 - = Factory Code

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