

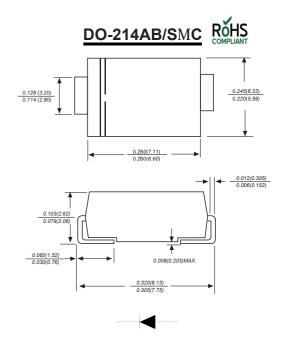
SK82C THRU SK810C

Reverse Voltage - 20 to 100 Volts Forward Current - 8.0 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250 °C/10 seconds at terminals



Mechanical Data

Case : JEDEC DO-214AB/SMC molded plastic body Terminals : Solderable per MIL-STD-750, Method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.007 ounce, 0.25 grams

Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25 C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SK82C	SK83C	SK835C	SK84C	SK845C	SK86C	SK88C	SK810C	UNITS
Marking Code		MDD SK82C	MDD SK83C	MDD SK835C	MDD SK84C	MDD SK845C	MDD SK86C	MDD SK88C	MDD SK810C	
Maximum repetitive peak reverse voltage	Vrrm	20	30	35	40	45	60	80	100	V
Maximum RMS voltage	Vrms	14	21	24.5	28	31.5	42	56	70	V
Maximum DC blocking voltage	Vdc	20	30	35	40	45	60	80	100	V
Maximum average forward rectified current at TL(see fig.1)	l(AV)	8.0							А	
Peak forward surge current										
8.3ms single half sine-wave	IFSM	200								A
superimposed onrated load (JEDEC Method)										
Maximum instantaneous forward voltage at 8.0A	VF	0.65 0.85						V		
Maximum DC reverse current TA=25°C		1.0								mA
at rated DCblocking voltage Ta=125°C	IR	20								
Typical junction capacitance (NOTE 1)	CJ	400					pF			
Typical thermal resistance (NOTE 2)	Reja	18.0						°C/W		
Operating junction temperature range TJ		-50 to +150						°C		
Storage temperature range	Тѕтс	-50 to +150						°C		

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

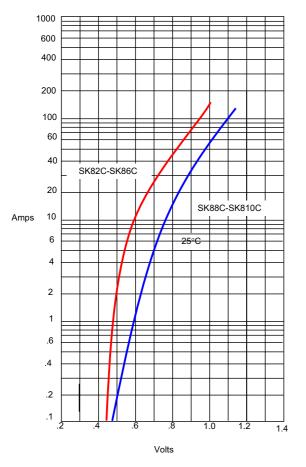


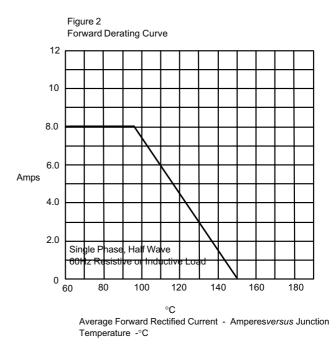
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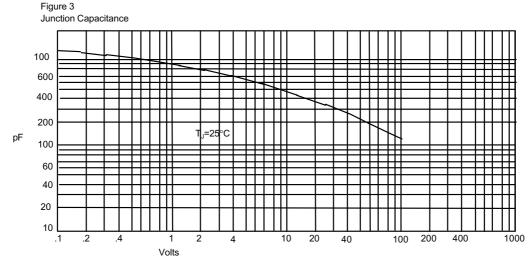
Typical Characterisitics

Figure 1 Typical Forward Characteristics





Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



Junction Capacitance - pF versus Reverse Voltage - Volts

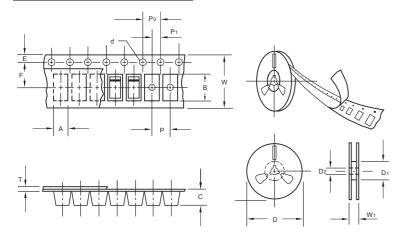
The curve above is for reference only.



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Packing information



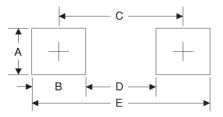
			unit:mm	
Item	Symbol	Tolerance	SMC	
Carrier width	A	0.1	6.15	
Carrier length	В	0.1	8.41	
Carrier depth	С	0.1	2.42	
Sprocket hole	d	0.05	1.50	
13" Reel outside diameter	D	2.0	330.00	
13" Reel inner diameter	D1	min	50.00	
Feed hole diameter	D2	0.5	13.00	
Sprocket hole position	E	0.1	1.75	
Punch hole position	F	0.1	7.50	
Punch hole pitch	Р	0.1	8.00	
Sprocket hole pitch	Po	0.1	4.00	
Embossment center	P1	0.1	2.00	
Overall tape thickness	Т	0.1	0.25	
Tape width	W	0.3	16.00	
Reel width	W1	1.0	16.50	

Note:Devices are packed in accor dance with EIA standar RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (mm)	BOX (pcs)	INNER BOX (mm)	REEL DIA, (mm)	CARTON SIZE (mm)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SMC	13"	3,000	4.0	6000	190*190*41	330	365*365*340	42000	14.0

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	4.3	0.170
В	4.1	0.160
С	7.9	0.311
D	3.8	0.150
E	12	0.472

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