S5AC THRU S5MC

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Ampere

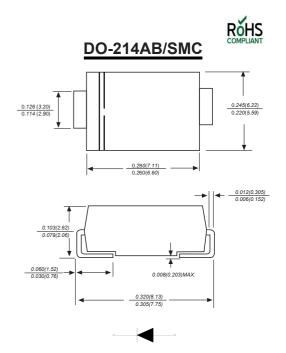
SURFACE MOUNT GENERAL RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications

(R)

- ♦ Low reverse leakage
- 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 2026Á Polarity': Polarity symbol marking on body Mounting Position': Any Weight : 0.0007 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 Marking Code		S5AC	S5BC	S5DC	S5GC	S5JC	S5KC	S5MC	UNITS
		MDD S5AC	MDD S5BC	MDD S5DC	MDD S5GC	MDD S5JC	MDD S5KC	MDD S5MC	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=75 [°] C		5.0						А	
Peak forward surge current									
8.3ms single half sine-wave		Іғѕм 150							A
superimposed onrated load (JEDEC Method)									
Maximum instantaneous forward voltage at 5.0A	Vf				1.2				V
Maximum DC reverse currentTa=25℃at rated DCblocking voltageTa=125℃	lr	10.0 100.0				μA			
Typical junction capacitance (NOTE 1)		60.0					pF		
Typical thermal resistance (NOTE 2)		10.0					°C/W		
Operating junction and storage temperature range		-50 to +150					°C		

*Pulse test: Pulse width 200 µsec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.



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FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

Typical Characterisitics

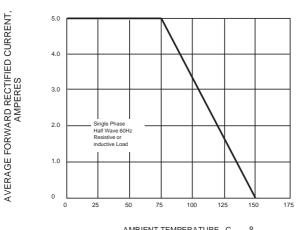
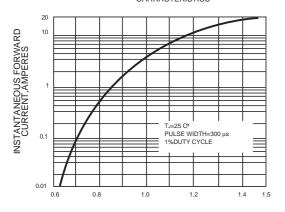


FIG. 1- FORWARD CURRENT DERATING CURVE

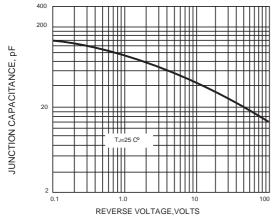
AMBIENT TEMPERATURE, C





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

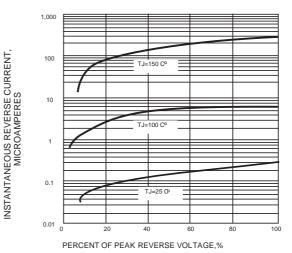
FIG. 5-TYPICAL JUNCTION CAPACITANCE

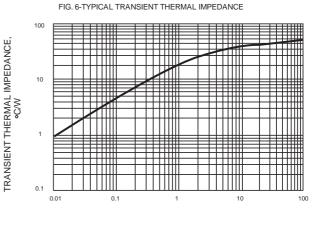


The curve above is for reference only.

LINUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS





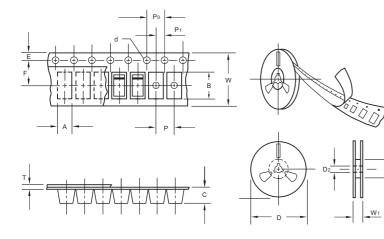
t,PULSE DURATION,sec.



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Packing information



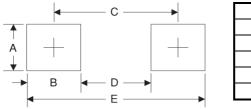
			unit:mm
ltem	Symbol	Tolerance	SMC
Carrier width	A	0.1	6.15
Carrier length	В	0.1	8.41
Carrier depth	С	0.1	2.42
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D1	min	50.00
Feed hole diameter	D2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	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)			
А	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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