

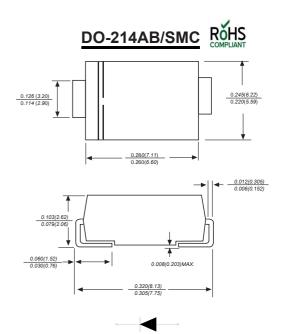
RS3AC THRU RS3MC

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

SURFACE MOUNT FAST RECOVERY RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Open Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C / 10 seconds at terminals
- ♦ Glass passivated chip junction



Mechanical Data

Case : JEDEC DO-214AB/SMC Molded plastic body Terminals : Solder plated, solderable per MIL-STD-750,Method 2026 Polarity : Polarity symbol marking on body Mounting Position : Any Weight : 0.007 ounce, 0.25 grams



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		RS3AC	RS3BC	RS3DC	RS3GC	RS3JC	RS3KC	RS3MC	UNITS
		MDD RS3AC	MDD RS3BC	MDD RS3DC	MDD RS3GC	MDD RS3JC	MDD RS3KC	MDD RS3MC	
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=90 $^\circ\!\!\!\mathrm{C}$		3.0						А	
Peak forward surge current									
8.3ms single half sine-wave		Іғѕм 100						A	
superimposed onrated load (JEDEC Method)									
Maximum instantaneous forward voltage at 3.0A		1.30						V	
Maximum DC reverse currentTa=25℃at rated DCblocking voltageTa=125℃		5.0 100.0					μA		
Maximum reverse recovery time (NOTE 1)		150 250 500			0	ns			
Typical junction capacitance (NOTE 2)		60.0						pF	
Typical thermal resistance (NOTE 3)		50.0					°C/W		
Operating junction and storage temperature range		-55 to +150						°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

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

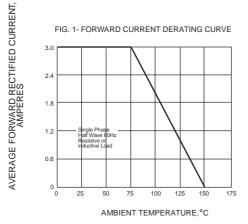
3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas



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Ratings And Characteristic Curves



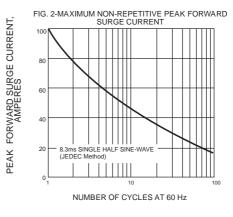
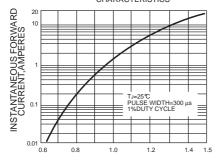


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

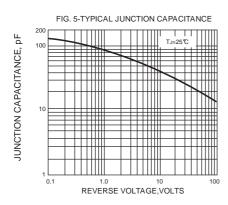
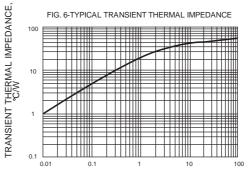


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



t,PULSE DURATION,sec.

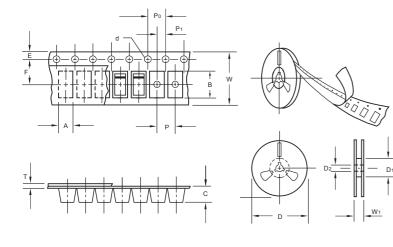
The curve above is for reference only.



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Packing information



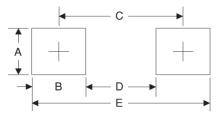
			unit:mm	
ltem	Symbol	Tolerance	SMC	
Carrier width	A	0.1	6.15	
Carrier length	В	0.1	8.41	
Carrier depth	С	0.1	2.42	
Sprocket hole	d	0.05	1.50	
13" Reel outside diameter	D	2.0	330.00	
13" Reel inner diameter	D1	min	50.00	
Feed hole diameter	D2	0.5	13.00	
Sprocket hole position	E	0.1	1.75	
Punch hole position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