





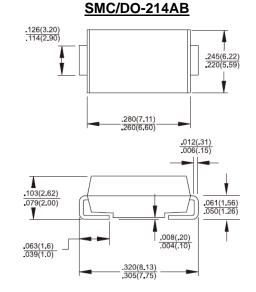
Features

- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- ♦ Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- ♦ Fast switching for high efficiency
- → High temperature soldering:
 260°C / 10 seconds at terminals
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: Molded plastic
- → Terminals: Pure tin plated, Lead free
- ♦ Polarity: Indicated by cathode band
- ♦ Packing: 16mm tape per EIA STD RS-481
- ♦ Weight: 0.21 grams

3.0 AMP. Surface Mount Fast Recovery Rectifiers



Dimensions in inches and (millimeters)

Marking Diagram



RS3X = Specific Device Code G = Green Compound

Y = Year M = Work Month

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%

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Symbol	RS 3A	RS 3B	RS 3D	RS 3G	RS 3J	RS 3K	RS 3M	Unit
V_{RRM}	50	100	200	400	600	800	1000	V
V_{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	3						Α	
I _{FSM}	100						Α	
V _F	1.3						٧	
I _R	10 250							uA
Trr	150			250	500		nS	
Cj	60						pF	
$R_{ heta jA} \ R_{ heta jL}$	50 15						°C/W	
TJ	- 55 to + 150						οС	
T _{STG}	- 55 to + 150						°С	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{F(AV)} \\ \\ I_{FSM} \\ V_{F} \\ \\ I_{R} \\ \\ Trr \\ Cj \\ R_{\theta j A} \\ R_{\theta j L} \\ T_{J} \\ \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R Trr Cj R _{θjA} R _{θjL} T _J	Symbol 3A 3B	Symbol 3A 3B 3D	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Symbol 3A 3B 3D 3G 3J 3K V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _{F(AV)} 3 100	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

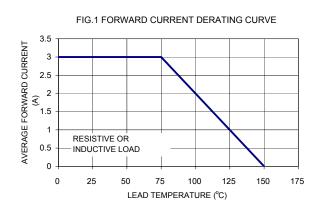
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

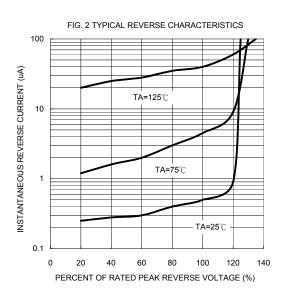
Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

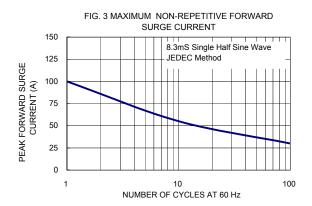
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

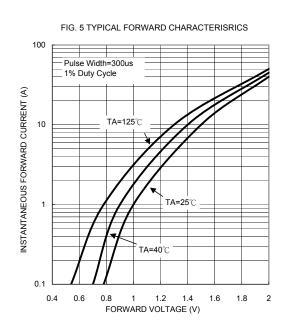


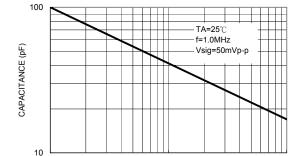
RATINGS AND CHARACTERISTIC CURVES (RS3A THRU RS3M)









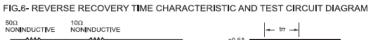


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REVERSE VOLTAGE (V)

1

FIG. 4 TYPICAL JUNCTION CAPACITANCE



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