

Pb RoHS



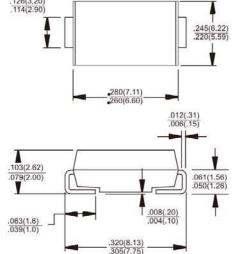
Features

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

Mechanical Data

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

3.0AMPS High Efficient Surface Mount Rectifiers SMC/DO-214AB 126(3.20) 114(2.90)



Dimensions in inches and (millimeters)

Marking Diagram



HS3X = 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%

Type Number	Symbol	HS 3A	HS 3B	HS 3D	HS 3F	HS 3G	HS 3J	HS 3K	HS 3M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 3A	V _F		1.0 1.3			1.3	1.7		V	
Maximum DC Reverse Current at $\ \ \ \ \ \ \ \ \ \ \ \ \ $	I _R	10 250							uA uA	
Maximum Reverse Recovery Time (Note 2)	Trr	50 75							nS	
Typical Junction Capacitance (Note 3)	Cj	80						50		pF
Maximum Thermal Resistance	$R_{\theta jA}$	60							°C/W	
Operating Temperature Range	TJ	- 55 to + 150							οС	
Storage Temperature Range	T _{STG}	- 55 to + 150							οС	

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 V_R=4.0 Volts



RATINGS AND CHARACTERISTIC CURVES (HS3A THRU HS3M)

