







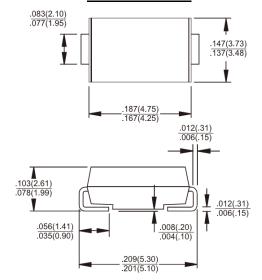
Features

- 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: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.093 grams

2.0AMPS High Efficient Surface Mount Rectifiers SMB/DO-214AA



Dimensions in inches and (millimeters)

Marking Diagram



HS2X = Specific Device Code

G = Green Compound

Y = Year

M = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathbb{C}$ 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 2A	HS 2B	HS 2D	HS 2F	HS 2G	HS 2J	HS 2K	HS 2M	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 See Fig. 1	I _{F(AV)}	2								А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50								Α
Maximum Instantaneous Forward Voltage (Note 1) @ 2 A	V _F	1.0 1.3				1.3	1.7			٧
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	5 150								uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	50 75					75		nS	
Typical Junction Capacitance (Note 3)	Cj	50 3					30		pF	
Maximum Thermal Resistance	$R_{\theta JA}$	80								°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 $_{\rm F}$ =0.5A, I $_{\rm R}$ =1.0A, I $_{\rm RR}$ =0.25A

Note 3: Measured at 1 MHz and Applied V_R =4.0 Volts



RATINGS AND CHARACTERISTIC CURVES (HS2A THRU HS2M)

