







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

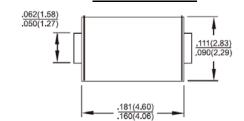
 $\ \, \hbox{$\diamondsuit$ } \ \, \hbox{Terminal: Pure tin plated, lead free}$

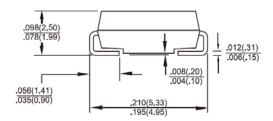
♦ Polarity: Indicated by cathode band

♦ Packing: 12mm tape per EIA STD RS-481

♦ Weight: 0.064 grams

1.0AMP High Efficient Surface Mount Rectifiers SMA/DO-214AC





Dimensions in inches and (millimeters)

Marking Diagram

HS1X = Specific Device Code
G = Green Compound

Y = Year

M = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Symbol	HS 1 A	HS 1B	HS 1D	HS 1E	HS 1G	HS 11	HS 1K	HS 1M	Units
V_{RRM}	50	100	200	300	400	600	800	1000	V
V _{RMS}	35	70	140	210	280	420	560	700	V
V_{DC}	50	100	200	300	400	600	800	1000	V
I _{F(AV)}	1							Α	
I _{FSM}	30						Α		
V _F		1.0 1.3			1.3	1.7		V	
I _R	5 50 150							uA	
Trr	50					75		nS	
Cj	20				15		pF		
$R_{\theta JA}$	70						°C/W		
T _J	- 55 to + 150						οС		
T _{STG}	- 55 to + 150						οС		
	V _{RRM} V _{RMS} V _{DC} I _{F(AV)} I _{FSM} V _F I _R Trr Cj R _{8JA} T _J	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} V _F V	Name	Name	Name	Name	Symbol 1A 1B 1D 1F 1G 1J V _{RRM} 50 100 200 300 400 600 V _{RMS} 35 70 140 210 280 420 V _{DC} 50 100 200 300 400 600 I _{F(AV)} 1 30 30 400 600 V _F 1.0 1.3 5 50 150 I _R 50 150 150 150 70 70 70 70 70 70 755 to + 150 70	Name	Symbol 1A 1B 1D 1F 1G 1J 1K 1M V _{RRM} 50 100 200 300 400 600 800 1000 V _{RMS} 35 70 140 210 280 420 560 700 V _{DC} 50 100 200 300 400 600 800 1000 I _{F(AV)} 1 30 30 400 600 800 1000 V _F 1.0 1.3 1.7 5 1.7 5 1.7

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 4.0Volts.



RATINGS AND CHARACTERISTIC CURVES (HS1A THRU HS1M)

