







Features

- Glass passivated junction chip
- For surface mounted application
- Low profile package
- Built-in strain rellef
- Ideal for automated placement
- Easy pick and place
- Super fast recovery time for high efficiency
- Qualified as per AEC-Q101
- 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

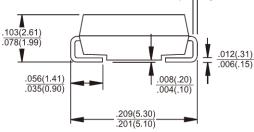
Mechanical Data

- Case: Molded plastic
- Terminals: Pure tin plated, lead free
- Polarity: Indicated by cathode band
- Packing: 12mm tape per EIA STD RS-481
- Weight: 0.093 grams

ESH2B - ESH2D

2.0AMPS Surface Mount Super Fast Rectifiers

SMB/DO-214AA .083(2.10) .077(1.95) .147(3.73) .137(3.48) .187(4.75) .167(4.25) 012(.31)



Dimensions in inches and (millimeters)

Marking Diagram

ESH2X = Specific Device Code

G = Green Compound Υ

ESH2X **S**GYM

= Year

= Work Month M

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	ESH2B	ESH2C	ESH2D	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	150	200	V
Maximum RMS Voltage	V_{RMS}	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2			Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load	I _{FSM}	60			Α
Maximum Instantaneous Forward Voltage (Note 1) @ 2 A	V _F	0.93			V
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =125 $^{\circ}$ C	I _R	2 50			uA
Maximum Reverse Recovery Time (Note 2)	Trr	25			nS
Typical Junction Capacitance (Note 3)	Cj	25			pF
Typical Thermal Resistance	$R_{ heta jA} \ R_{ heta jL}$	75 20			°C/W
Operating Temperature Range	T_J	- 55 to + 175			οС
Storage Temperature Range	T _{STG}		- 55 to + 175	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 Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (ESH2B THRU ESH2D)

