



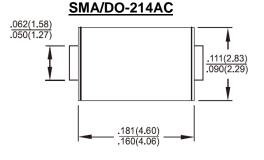
Features

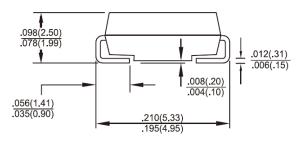
- ∻ Glass passivated junction chip
- ∻ For surface mounted application
- Low profile package ∻
- Built-in strain rellef ∻
- Ideal for automated placement ∻
- ∻ Easy pick and place
- ∻ Super fast recovery time for high efficiency
- Qualified as per AEC-Q101 ∻
- High temperature soldering: ∻ 260°C/10 seconds 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: 0.067 grams

ESH2BA - ESH2DA **1.0AMPS Surface Mount Super Fast Rectifiers**





ESH2XA SGYM

G

Y

М

Dimensions in inches and (millimeters)

Marking Diagram

- ESH2XA = Specific Device Code = Green Compound
 - = Year
 - = 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%

Symbol	ESH2BA	ESH2CA	ESH2DA	Unit
V _{RRM}	100	150	200	V
V _{RMS}	70	105	140	V
V _{DC}	100	150	200	V
I _{F(AV)}	1			А
I _{FSM}	50			А
V _F	0.90		V	
I _R	1 50			uA
Trr	25			nS
Cj	25			pF
R _{θjA} R _{θjL}	75 20			°C/W
TJ	- 55 to + 175			°C
T _{STG}	- 55 to + 175		°C	
	$\begin{tabular}{ c c c c } \hline V_{RRM} & V_{RMS} & V_{DC} & \\ \hline V_{F(AV)} & I_{F(AV)} & \\ \hline I_{F(AV)} & & \\ \hline V_{F} & & \\ \hline V_{F} & & \\ \hline V_{F} & & \\ \hline & & \\ \hline & & \\ R_{\theta A} & \\ \hline & & \\ R_{\theta A} & \\ \hline & & \\ T_{J} & & \\ \hline \end{tabular}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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.

Version:A11



RATINGS AND CHARACTERISTIC CURVES (ESH2BA THRU ESH2DA)

