



Innovation to **Power Your Vision**

AEM®

Product Brief



Automotive Grade TVS & Zener Diodes



SMA Case



SMB Case



SMC Case

Central's new automotive TVS and Zener Diode series are designed for high-reliability on-board applications ranging from battery management to infotainment circuit protection. The TVS series supports a voltage range of 10V to 170V and the Zener series supports a range of 5.6V to 68V. They are available in a variety of packages including the SMA, SMB, and SMC.

	Features:	Applications:	Benefits:
TVS	<ul style="list-style-type: none"> • 3000W TVS power rating in uni- & bi-directional options 	<ul style="list-style-type: none"> • Electronic system surge suppression • Vehicle multimedia line protection 	<ul style="list-style-type: none"> • Robust package options for high power dissipation
Zener Diodes	<ul style="list-style-type: none"> • Up to 5W Zener power rating 	<ul style="list-style-type: none"> • On-board charger and infotainment system, voltage regulation dashboard 	<ul style="list-style-type: none"> • Manufactured and qualified in equivalence with AEC-Q101

Automotive Grade Transient Voltage Suppressors

3SMC10AQ thru 3SMC170AQ

Uni-Directional Glass Passivated
Transient Voltage Suppressor in an SMC Case
3000 Watt, 10V thru 170V

3SMC10CAQ thru 3SMC170CAQ

Bi-Directional Glass Passivated
Transient Voltage Suppressor in an SMC Case
3000 Watt, 10V thru 170V

Automotive Grade Zener Diodes

CMZ5919BQ thru CMZ5945BQ

Zener Diodes in an SMA Case
1.5 Watt, 5.6V thru 68V, 5% Tolerance

CMZ5919BPQ thru CMZ5945BPQ

Zener Diodes in an SMB Case
1.5 Watt, 5.6V thru 68V, 5% Tolerance

CMZ5339BQ thru CMZ5373BQ

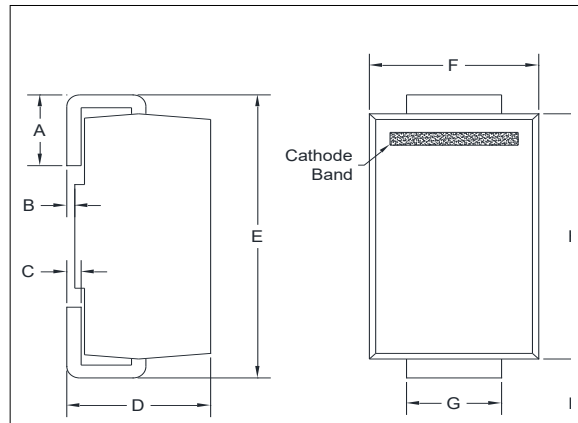
High Power Zener Diodes in an SMC Case
5.0 Watt, 5.6V thru 68V, 5% Tolerance

Automotive Grade TVS & Zener Diodes

Mechanical Drawing: SMA

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	0.006	0.012	0.15	0.30
D	0.078	0.103	1.98	2.62
E	0.188	0.220	4.78	5.59
F	0.090	0.115	2.29	2.92
G	0.050	0.070	1.27	1.78
H	0.157	0.181	3.99	4.60

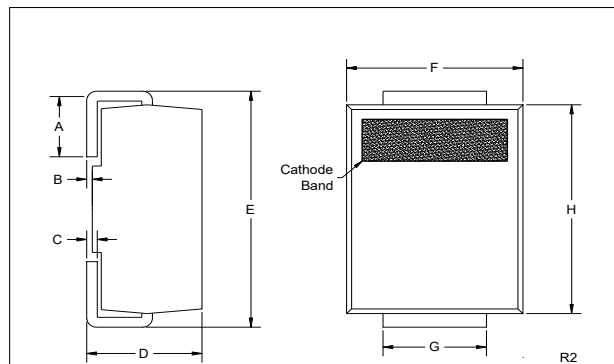
SMA (REV: R3)



Mechanical Drawing: SMB

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.000	0.008	0.00	0.20
C	0.006	0.012	0.15	0.30
D	0.086	0.096	2.18	2.44
E	0.200	0.220	5.08	5.59
F	0.130	0.150	3.30	3.81
G	0.077	0.083	1.96	2.11
H	0.160	0.191	4.06	4.85

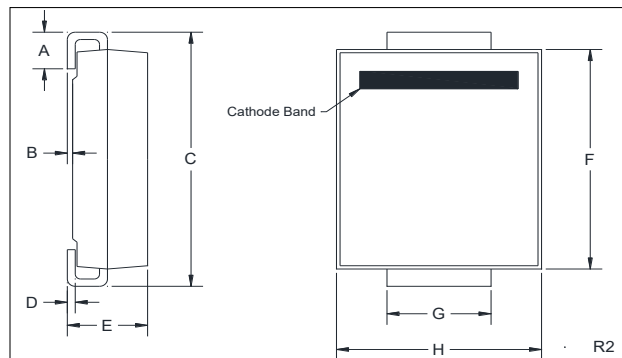
SMB (REV: R2)



Mechanical Drawing: SMC

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	0.305	0.320	7.75	8.13
D	0.006	0.012	0.15	0.31
E	0.079	0.103	2.00	2.62
F	0.260	0.280	6.60	7.11
G	0.108	0.128	2.75	3.25
H	0.220	0.245	5.59	6.22

SMC (REV: R2)



For marking code, please see individual data sheets.

Package details information is available at www.centrasemi.com/package-details



For more information on Central's products and solutions:

Call us at: **1.631.435.1110**

Or view online: www.centrasemi.com/featured-products

