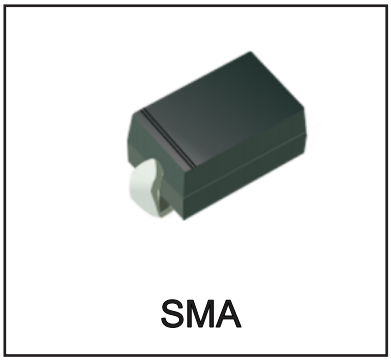
Surface Mount Zener Diodes

Features:

- 1w Power Dissipation
- Ideal for Surface Mountted Application
- Zener Breakdown Voltage 5.6V



Equivalent Circuit Diagram



Cathode Anode

Mechanical Data:

- Case : SMA Molded plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Indicated by Polarity Band

Maximum Ratings and Electrical Characteristics (TA=25 °C Unless Otherwise Noted)

Characteristics	Symbol	Value	Unit
Total Power Dissipation on FR-5 Board (1)	P_D	1.0	W
Forward Voltage @ IF=10mA	VF	1.2	V
Junction and Storage Temperature Range	T_J ,T_{STG}	-55 to +150	°C

ORDERING INFORMATION

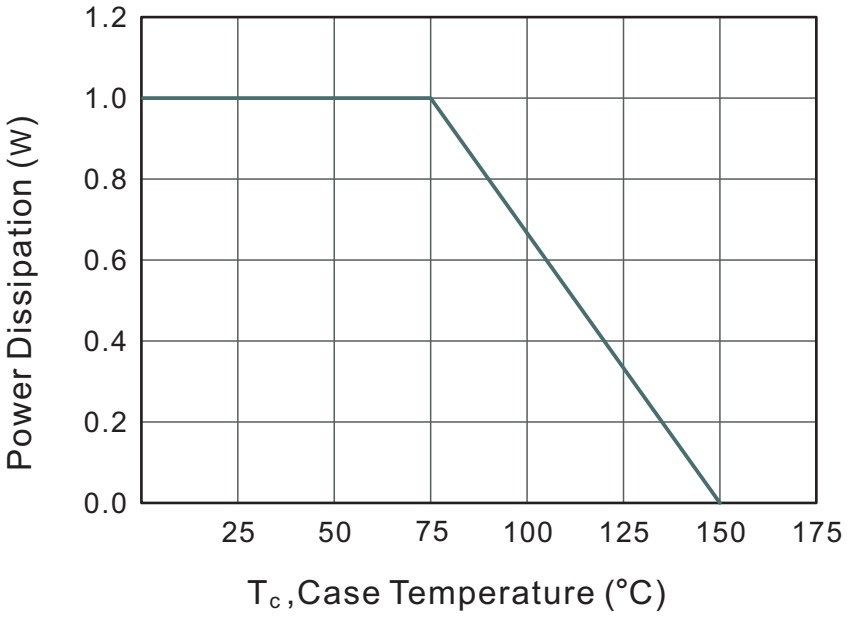
Device	Marking	Package	Shipping
AS5V6102G	734A	SMA	1500/Tape&Reel

Characteristics at Ta = 25°C

Type	Zener Voltage Range (1)				Dynamic Impedance	Reverse Current		Admissible Zener Current
	V_{ZT} (at I_{ZT})			I_{ZT}	Z_{ZT} (at I_{ZT})	I_R	at V_R	
	Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max (μA)	(V)	I_{ZM}(mA)
AS5V6H102G	5.32	5.6	5.92	45	5.0	10	2	170

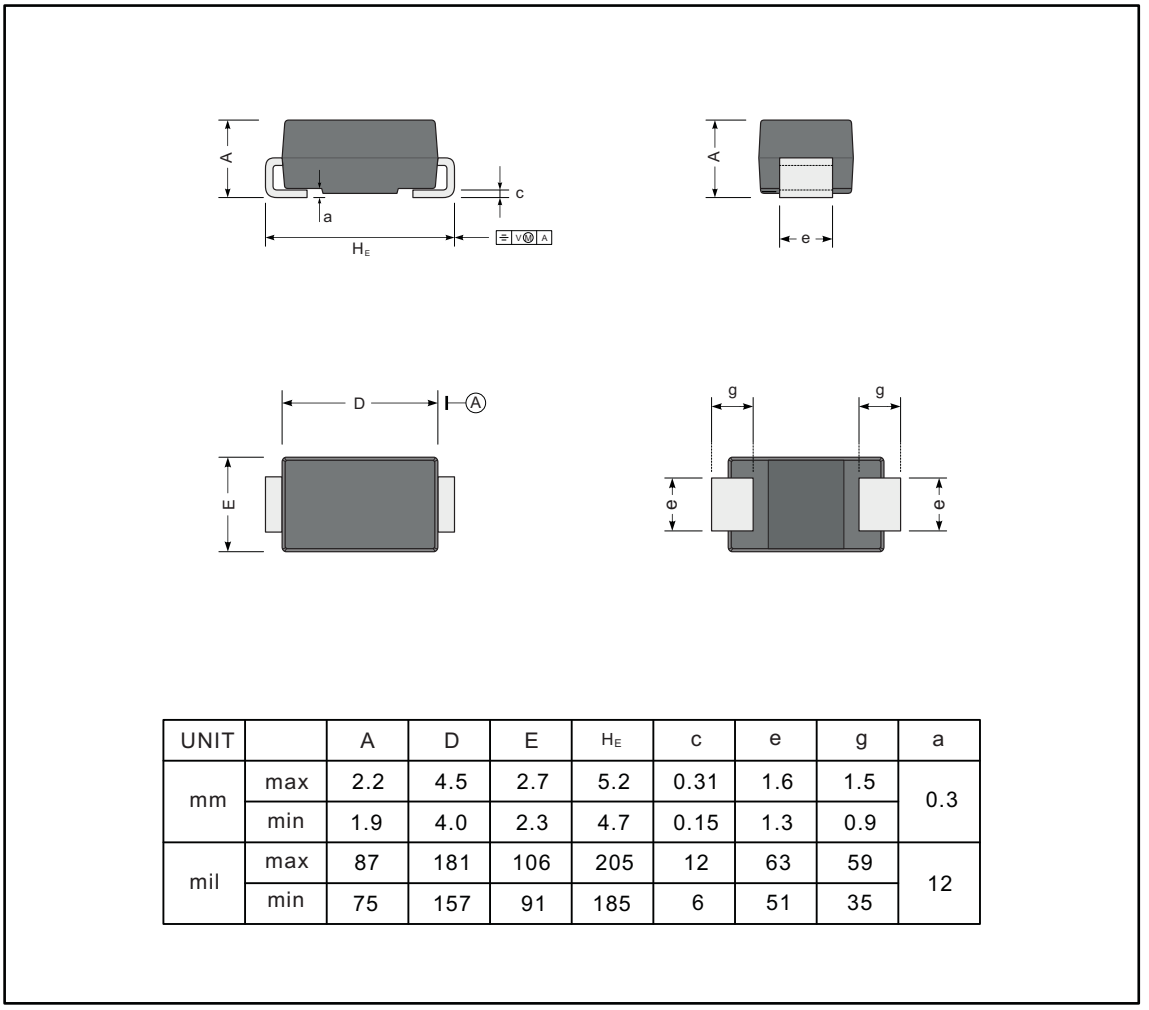
(1) V_{ZT} is tested with pulses (20 ms)

Fig.1 Maximum Continuous Power Derating



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



UNIT		A	D	E	H_E	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

The recommended mounting pad size

