

MD6Z3V9-MD6Z12-HAF

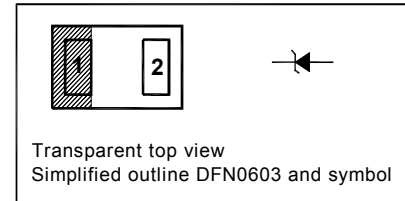
Silicon Planar Zener Diodes

Features

- Low leakage voltage
- Small plastic package suitable for surface mounted design
- High reliability
- Halogen and Antimony Free(HAF), RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	250	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	$^\circ\text{C}$

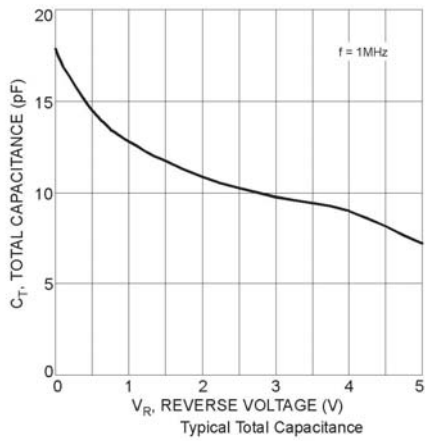
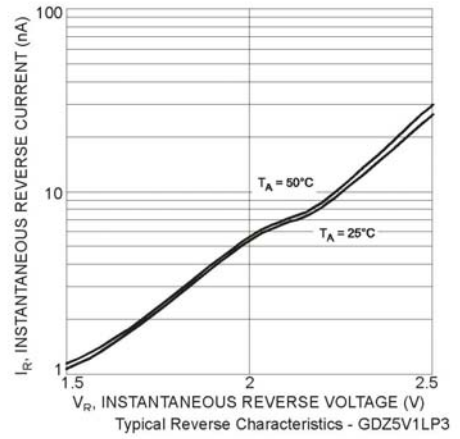
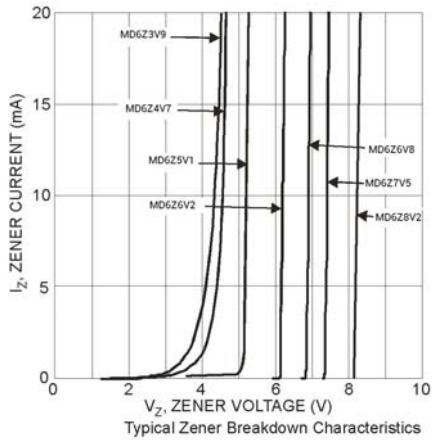
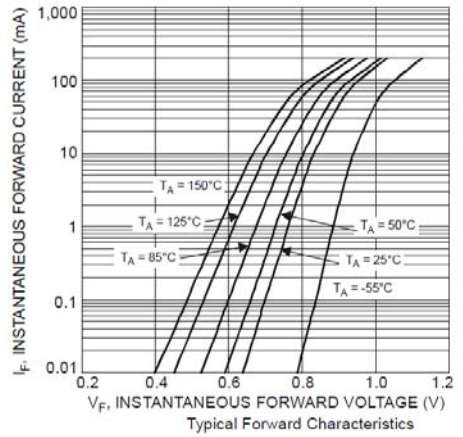
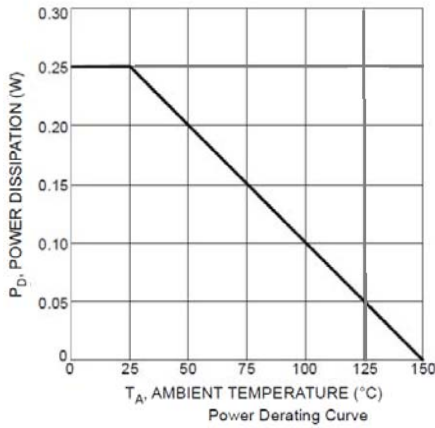
Characteristics at $T_a = 25^\circ\text{C}$

Type	Marking Code	Zener Voltage			Maximum Reverse Current	
		V_{ZT}		at I_{ZT}	I_R	at V_R
		Min. (V)	Max. (V)	(mA)	Max. (μA)	(V)
MD6Z3V9	KJ	3.74	4.16	5	5	1
MD6Z4V7	KL	4.42	4.9	5	2	1
MD6Z5V1	KM	4.84	5.37	5	0.2	2
MD6Z5V6	KN	5.31	5.92	5	1	2.5
MD6Z6V0	KP	5.676	6.324	5	1	2.8
MD6Z6V2	KQ	5.86	6.53	5	1	3
MD6Z6V8	KR	6.47	7.14	5	0.5	3.5
MD6Z7V5	KS	7.06	7.84	5	0.5	4
MD6Z8V2	KT	7.76	8.64	5	0.5	5
MD6Z9V1	KU	8.65	9.55	5	0.5	6
MD6Z10	KV	9.5	10.5	5	0.1	7
MD6Z11	KW	10.45	11.55	5	0.1	8
MD6Z12	KX	11.4	12.6	5	0.1	9

TOP DYNAMIC



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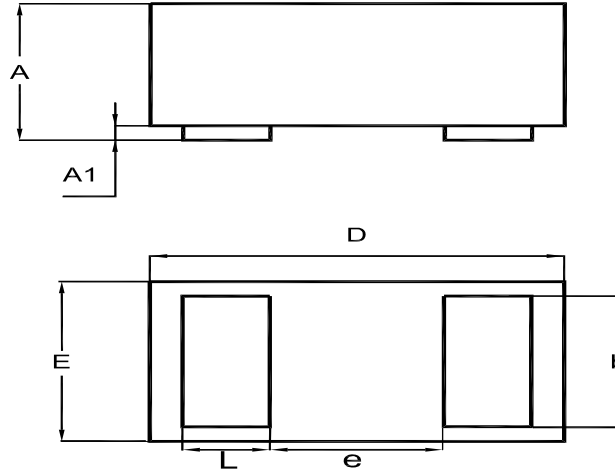


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PACKAGE OUTLINE

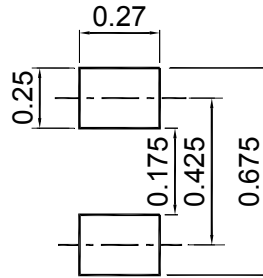
Plastic surface mounted package; 2 leads

DFN0603



UNIT	A	A1	b	D	E	e	L
mm	0.27 0.33	0 0.025	0.21 0.29	0.57 0.65	0.28 0.35	0.355	0.14 0.22

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
DFN0603	8	4 ± 0.1	0.157 ± 0.004	178	7	10,000

TOP DYNAMIC



Dated: 04/08/2016 Rev: 02