Silicon Epitaxial Planar Zener Diode for Surge Absorb

HITACHI

ADE-208-796 (Z) Rev 0 May. 1999

Features

- HZM5.6ZFA has four devices, and can absorb external + and -surge. ٠
- Low capacitance (C=8.5pF max) and can protect ESD of signal line. •
- MPAK-5 Package is suitable for high density surface mounting and high speed assembly. rdering Information ٠

Ordering Information

Type No.	Laser M	lark	Package Code	
HZM5.6ZFA	56Z		MPAK-5	
Outline				
		1 2 1 4 5 4 3 (Top View)	 Cathode Cathode Cathode Anode Cathode 	



Absolute Maximum Ratings (Ta = 25° C)

Symbol	Value	Unit	
Pd ^{*1}	200	mW	
Tj 150		°C	
Tstg	-55 to +150	°C	
	Pd ^{*1} Tj	Pd ¹¹ 200 Tj 150	Pd '1 200 mW Tj 150 °C

Note 1. Four device total, See Fig.2.

Electrical Characteristics (Ta = 25° C) ^{*1}

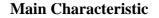
ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Zener voltage	Vz	5.31	_	5.92	V	$I_z = 5 \text{ mA}, 40 \text{ms} \text{ pulse}$
Reverse current	I _R		—	0.5	μA	$V_R = 2.5V$
Capacitance	С	—	8.0	8.5	pF	$V_R = 0V, f = 1 MHz$
Dynamic resistance	r _d		—	80	Ω	$I_z = 5 \text{ mA}$
ESD-Capability *2	—	8	-	-	kV	C =150pF, R = 330 Ω , Both forward and reverse direction 10 pulse

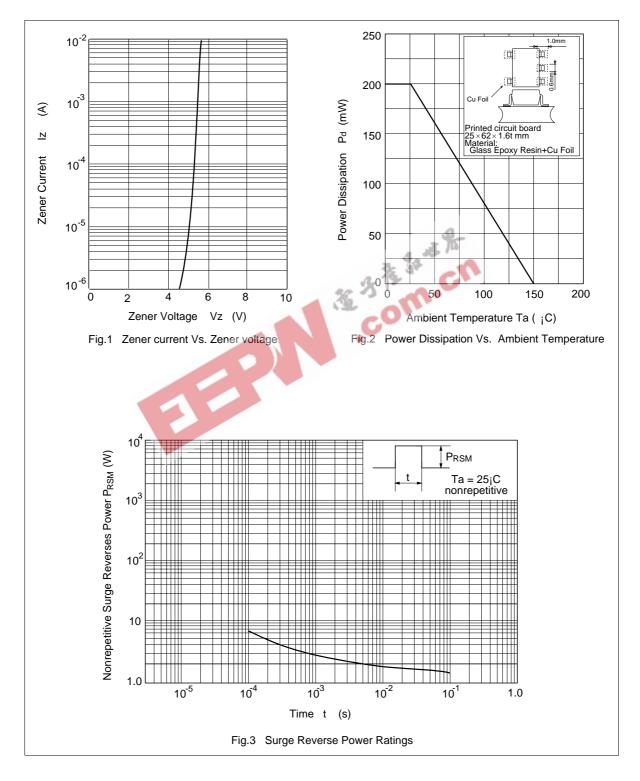
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Notes 1. Per one device.

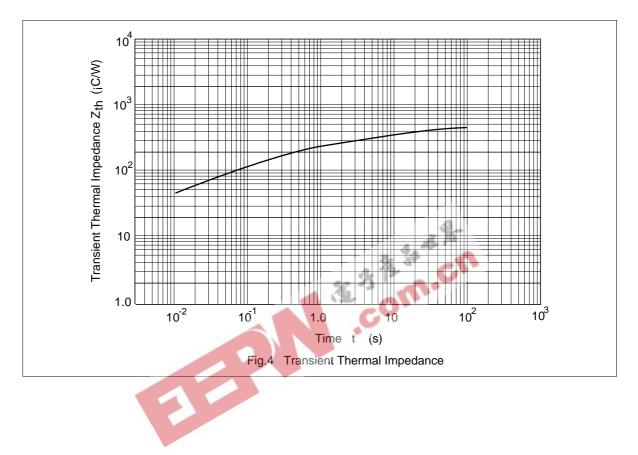
2. Failure criterion ; IR > 0.5μ A at VR = 2.5V.

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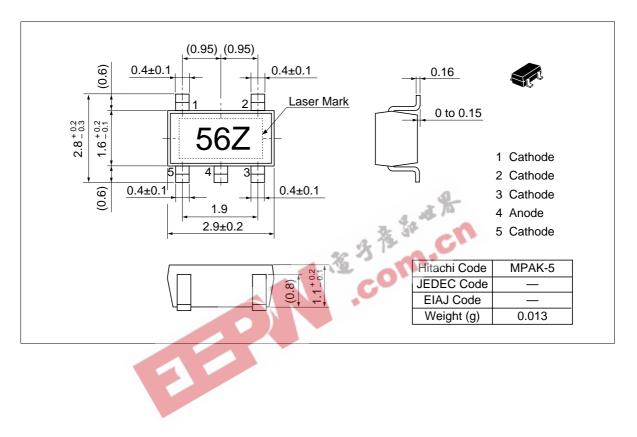


Main Characteristic



Package Dimensions

Unit : mm



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