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April 1st, 2010 Renesas Electronics Corporation

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HZU-G Series

Silicon Planar Zener Diode for Surge Absorption

REJ03G1215-0300 Rev.3.00 Jun 08, 2006

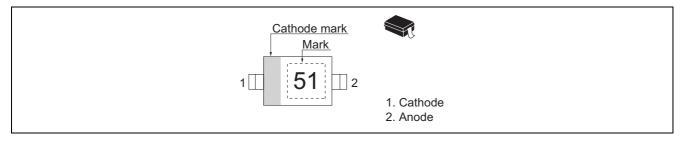
Features

- Zener diode for surge absorption suitable for IEC 1000-4-2.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code	
HZU-G Series	Let to Mark Code	URP	PTSP0002ZA-A	

Pin Arrangement





Absolute Maximum Ratings

(Ta = 25°C)

			(= =)
ltem	Symbol	Value	Unit
Power dissipation	Pd *	200	mW
Junction temperature	Тј	150	°C
Storage temperature	Tstg	–55 to +150	°C
	•		•

Note: See Fig2.

Electrical Characteristics

								$(Ta = 25^{\circ}C)$
	Zener Voltage		Reverse Current		Dynamic Resistance		ESD-Capability * ²	
	V _z (V) * ¹	Test Condition	Ι _R (μΑ)	Test Condition	r _d (Ω)	Test Condition	— (kV) * ²
Type No.	Min	Max	I _z (mA)	Max	V _R (V)	Max	l _z (mA)	Min
HZU5.1G	4.84	5.37	5	5	1.5	130	5	30
HZU5.6G	5.31	5.92	5	5	2.5	80	5	30
HZU6.2G	5.86	6.53	5	2	3.0	50	5	30
HZU6.8G	6.47	7.14	5	2	3.5	30	5	30
HZU7.5G	7.06	7.84	5	2	4.0	30	5	30
HZU8.2G	7.76	8.64	5	2	5.0	30	5	30
HZU9.1G	8.56	9.55	5	2	6.0	30	5	30
HZU10G	9.45	10.55	5	2	7.0	30	5	30
HZU12G	11.42	12.60	5	2	9.0	35	5	30
HZU13G	12.47	13.96	5	2	10.0	35	5	30

Notes: 1. Tested with pulse (Pw = 40 ms).

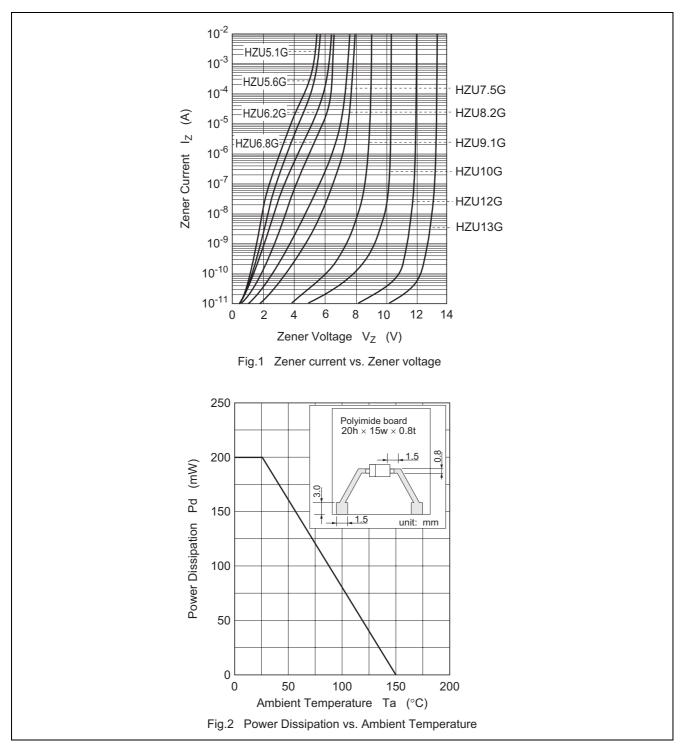
2. C =150 pF, R = 330 Ω , Both forward and reverse direction 10 pulse Failure criterion ; According to IR spec

Mark Code

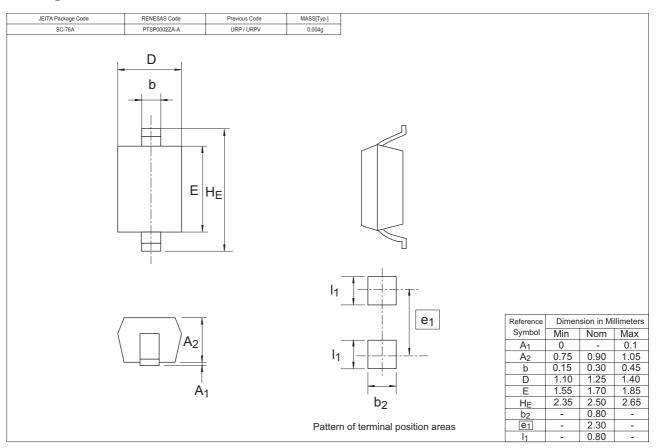
Type No.	Mark No.
HZU5.1G	51
HZU5.6G	56
HZU6.2G	62
HZU6.8G	68
HZU7.5G	75
HZU8.2G	82
HZU9.1G	91
HZU10G	10
HZU12G	12
HZU13G	13



Main Characteristic



Package Dimensions





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