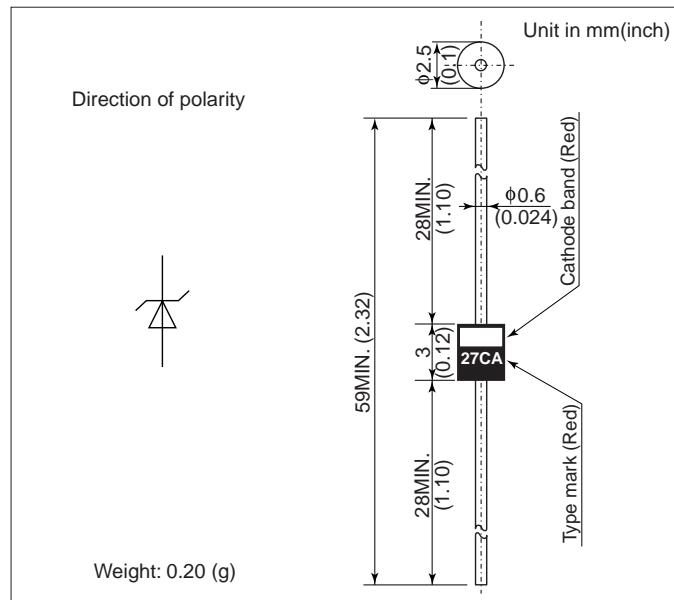


DAM1SA

FEATURES

- High transient reverse power capability suitable for protecting automobile electronic components etc.
- Diffused-junction. Resin encapsulated.

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

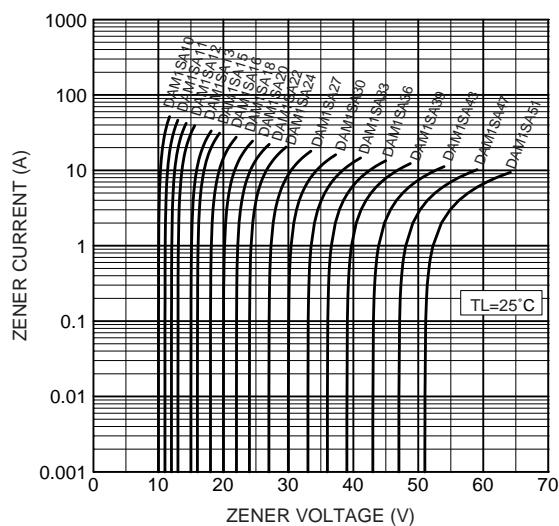
Items	Symbols	Units	Ratings
Non-Repetitive Peak Reverse One-Cycle Dissipation	P_{RSM}	W	600(Rectangular pulse $t=0.1\text{ms}$ $T_i=25^\circ\text{C}$ start)
Operating Junction Temperature	T_j	°C	-40 ~ +150
Storage Temperature	T_{stg}	°C	-40 ~ +150
DC Reverse Voltage	V_{DC}	V	Refer to characteristics column

CHARACTERISTICS($T_L=25^\circ\text{C}$)

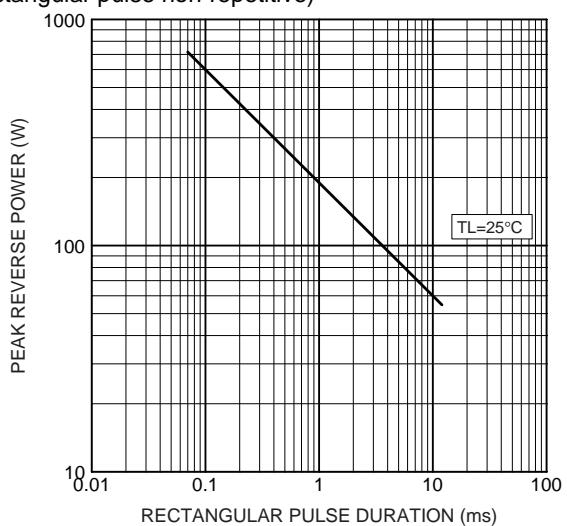
Type	DC Reverse Voltage V_{DC} (V)	Characteristics				Maximum Reverse Current	
		Zener Voltage V_z (V)		Maximum Dynamic Impedance Z_z (ohm)	Test Current I_z (mA)		
		Minimum	Maximum		I_{RRM} (μA)	V_R (V)	
DAM1SA10	7	9.4	10.6	15	25	50	7
DAM1SA11	8	10.4	11.6	15	25	50	8
DAM1SA12	9	11.4	12.7	15	25	50	9
DAM1SA13	10	12.4	14.1	15	25	50	10
DAM1SA15	11	13.5	15.6	15	25	50	11
DAM1SA16	12	15.3	17.1	15	15	50	12
DAM1SA18	13	16.8	19.1	15	15	50	13
DAM1SA20	14	18.8	21.2	15	15	50	14
DAM1SA22	16	20.8	23.3	15	15	50	16
DAM1SA24	18	22.7	25.6	15	10	50	18
DAM1SA27	20	25.1	28.9	15	10	50	20
DAM1SA30	22	28.0	32.0	15	10	50	22
DAM1SA33	24	31.0	35.0	15	10	50	24
DAM1SA36	26	33.4	38.6	15	10	50	26
DAM1SA39	28	36.1	41.9	30	10	50	28
DAM1SA43	31	39.8	46.2	30	6	50	31
DAM1SA47	34	43.3	50.7	30	6	50	34
DAM1SA51	37	46.9	55.1	30	6	50	37

DAM1SA

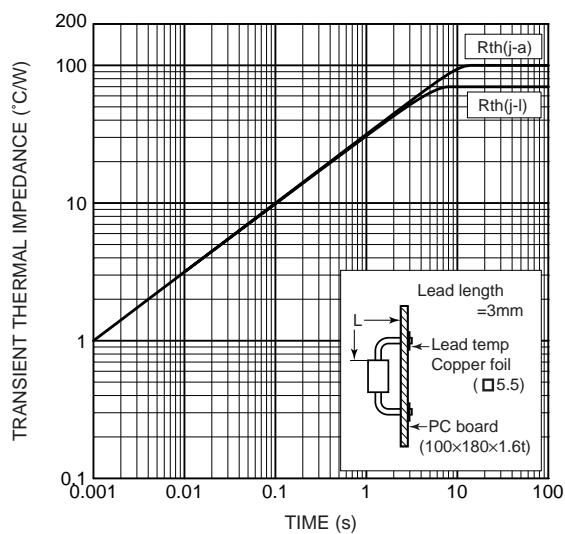
Typical zener characteristics



Typical reverse power characteristic
(Rectangular pulse non-repetitive)



Transient thermal impedance



HITACHI POWER SEMICONDUCTORS

Notices

- 1.The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact Hitachi sales department for the latest version of this data sheets.
- 2.Please be sure to read "Precautions for Safe Use and Notices" in the individual brochure before use.
- 3.In cases where extremely high reliability is required(such as use in nuclear power control, aerospace and aviation, traffic equipment, life-support-related medical equipment, fuel control equipment and various kinds of safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement. Or consult Hitachi's sales department staff.
- 4.In no event shall Hitachi be liable for any damages that may result from an accident or any other cause during operation of the user's units according to this data sheets. Hitachi assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in this data sheets.
- 5.In no event shall Hitachi be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 6.No license is granted by this data sheets under any patents or other rights of any third party or Hitachi, Ltd.
- 7.This data sheets may not be reproduced or duplicated, in any form, in whole or in part , without the expressed written permission of Hitachi, Ltd.
- 8.The products (technologies) described in this data sheets are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.

- For inquiries relating to the products, please contact nearest overseas representatives which is located "Inquiry" portion on the top page of a home page.

Hitachi power semiconductor home page address <http://www.hitachi.co.jp/pse>

HITACHI