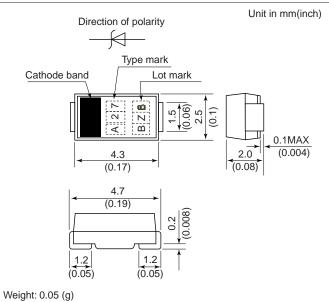


FEATURES

- High transient reverse power capability suitable for protecting automobile electronic components etc.
- High heat-resistant due to glass passivation.

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Items	Symbols	Units	Ratings				
Non-Repetitive Peak Reverse One- Cycle Dissipation	P _{RSM}	W	600(Rectangular pulse t=0.1ms T _j =25°C start)				
Operating Junction Temperature	Tj	°C	-40 ~ +150				
Storage Temperature	T _{stg}	°C	-40 ~ +150				
DC Reverse Voltage	V _{DC}	V	Refer to characteristics column				

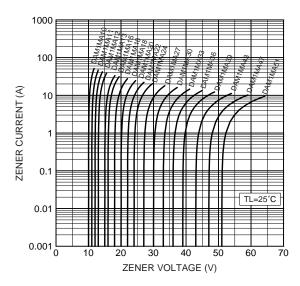
CHARACTERISTICS(T_L=25°C)

	DC		Charac	Maximum			
Type Reverse Voltage V _{DC} (V)	Reverse	Zener Voltage Vz (V		Maximum Dynamic	Test Current	Reverse Current	
	V _{DC}	Minimum	Maximum	Impedance Zz (ohm)	lz (mA)	Ι _{RRM} (μΑ)	V _R (V)
DAM1MA10	7	9.4	10.6	15	25	10	7
DAM1MA11	8	10.4	11.6	15	25	10	8
DAM1MA12	9	11.4	12.7	15	25	10	9
DAM1MA13	10	12.4	14.1	15	25	10	10
DAM1MA15	11	13.5	15.6	15	25	10	11
DAM1MA16	12	15.3	17.1	15	15	10	12
DAM1MA18	13	16.8	19.1	15	15	10	13
DAM1MA20	14	18.8	21.2	15	15	10	14
DAM1MA22	16	20.8	23.3	15	15	10	16
DAM1MA24	18	22.7	25.6	15	10	10	18
DAM1MA27	20	25.1	28.9	15	10	10	20
DAM1MA30	22	28.0	32.0	15	10	10	22
DAM1MA33	24	31.0	35.0	15	10	10	24
DAM1MA36	26	33.4	38.6	15	10	10	26
DAM1MA39	28	36.1	41.9	30	10	10	28
DAM1MA43	31	39.8	46.2	30	6	10	31
DAM1MA47	34	43.3	50.7	30	6	10	34
DAM1MA51	37	46.9	55.1	30	6	10	37
DAM1MA68	49	61.2	74.8	60	4	5	55
DAM1MA75	54	67.5	82.5	60	4	5	61
DAM1MA82	59	73.8	90.2	60	3	5	66

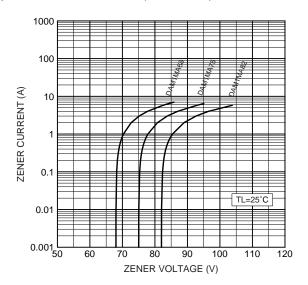


DAM1MA

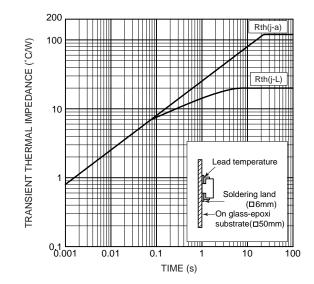
Typical zener characteristics (Vz:10~51V)



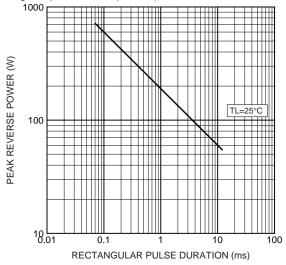
Typical zener characteristics (Vz:68~82V)







Typical reverse power characteristics (Rectangular pulse non-repetitive)



Precautions for Safe Use and Notices

If semiconductor devices are handled inappropriate manner, failures may result. For this reason, be sure to read "Precaution for Use" before use.



This mark indicates an item about which caution is required.

CAUTION This mark indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury and damage to property.

\triangle CAUTION

- (1) Regardless of changes in external conditions during use "absolute maximum ratings" should never be exceed in designing electronic circuits that employ semiconductors. In the case of pulse use, furthermore, "safe operating area(SOA)" precautions should be observed.
- (2) Semiconductor devices may experience failures due to accident or unexpected surge voltages. Accordingly, adopt safe design features, such as redundancy or prevention of erroneous action, to avoid extensive damage in the event of a failure.
- (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 user's fail-safe precautions or other arrangement. Or consult Hitachi's sales department staff.

(If a semiconductor device fails, there may be cases in which the semiconductor device, wiring or wiring pattern will emit smoke or cause a fire or in which the semiconductor device will burst)

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