

M1(H) THRU M7(H)

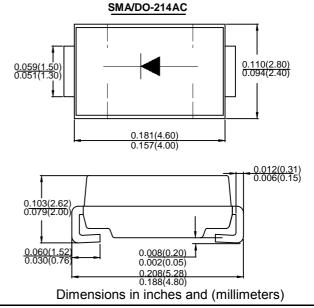
1.0AMP SURFACE MOUNT GLASS RECOVERY RECTIFIER

Features

- For surface mounted application
- Low forward voltage drop
- High current capability
- · High reliability
- Classification Rating 94V-0

Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase,half wave,60Hz,resistive or inductive load For capacitive load derate current by 20%

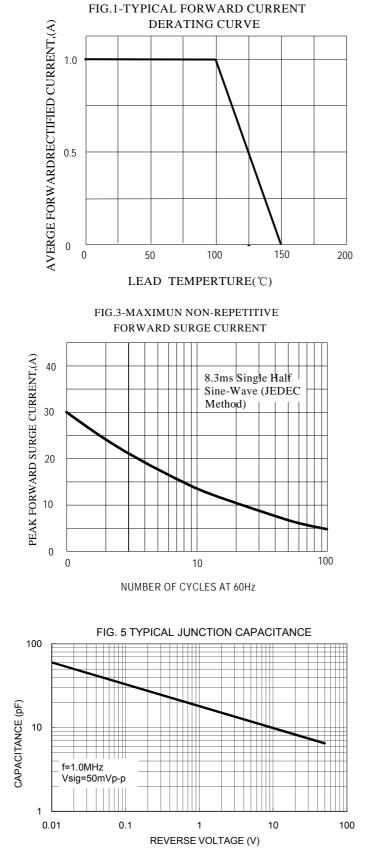
Type Number (Note 1)	SYMBOL	M1(H)	M2(H)	M3(H)	M4(H)	M5(H)	M6(H)	M7(H)	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =100°C	IF(AV)	1.0							А
Non-Repetitive Peak Forward Surge $@T_{j=25}$ °C Current 8.3ms Single half sine-wave $@T_{j=125}$ °C Superimposed On Rated Load (JEDEC Method)	Ifsm	30 24							A
Non-Repetitive Peak Forward Surge $@T_{j=25}$ °C Current 1.0ms Single half sine-wave $@T_{j=125}$ °C Superimposed On Rated Load (JEDEC Method)	Ifsm	60 48							A
10000 times of the wave surge current (time width 1ms, time interval 3s)	IFSM	22.5							А
Rating for fusing (t<8.3ms)	l ² t	3.74							A²s
Forward Voltage @IF=1.0A	Vfm	1.0							V
Peak Reverse Current @T₄ =25 °C		5.0							uA
At Rated DC Blocking Voltage @T _A =125°C	IR	lr 5					50		
Typical Junction Capacitance (Note 2)	CJ	12							рF
Typical reverse recovery time (Note 3)	t _{rr}	1.5							μs
Typical Thermal Resistance (Note 4)	Rø jl Rø ja	23 57						°C/W	
Operating and Storage Temperature Range	T_J, T_STG	-55 to+150							°C

Note: 1."H":Halogen Free.

- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A
- 4. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.



M1(H) THRU M7(H)



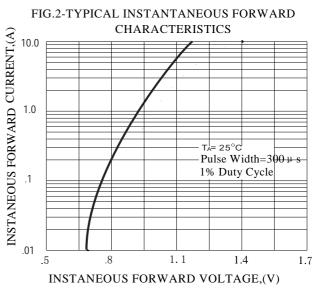
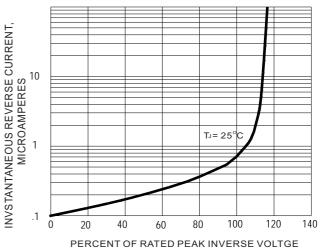
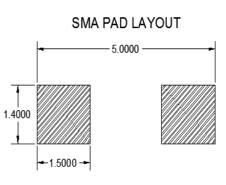


FIG.4-TYPICAL REVERSE CHARACTERISTICS







Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- •XINNUOreserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- •XINNUOdisclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own ris k andagree to fully indemnifyXINNUOfor any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.