

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

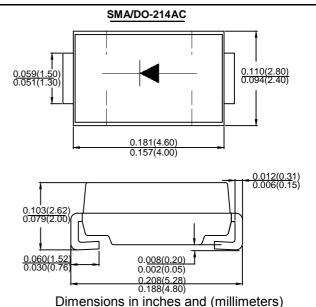
Mechanical Data

· Case: Molded plastic SMA

 Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: 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	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @TL =100°C	IF(AV)	1.0							Α
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)	lғsм	30 24							Α
Non-Repetitive Peak Forward Surge @Tj=25 ℃ Current 1.0ms Single half sine-wave @Tj=125℃ Superimposed On Rated Load (JEDEC Method)	IFSM	60 48							Α
10000 times of the wave surge current (time width 1ms, time interval 3s)	IFSM	22.5							Α
Rating for fusing (t<8.3ms)	l ² t	3.74							A ² s
Forward Voltage @IF=1.0A	V _{FM}	1.0							V
Peak Reverse Current @T _A =25 °C		5.0 50							uA
At Rated DC Blocking Voltage @T _A =125°C	· I _R								
Typical Junction Capacitance (Note 2)	Сл	12							pF
Typical reverse recovery time (Note 3)	t _{rr}	1.5							μs
Typical Thermal Resistance (Note 4)	Re jl Re ja	23 57						°C/W	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to+150							$^{\circ}\mathbb{C}$

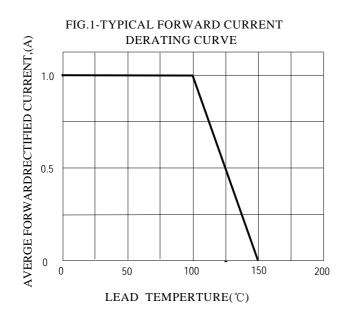
Note: 1."H":Halogen Free.

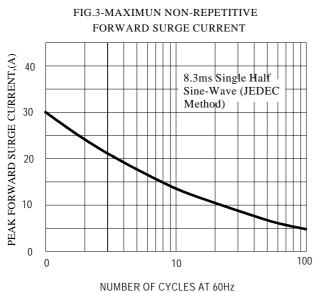
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A
- 4. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

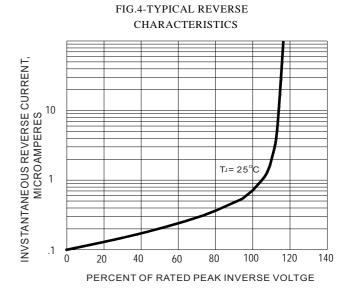
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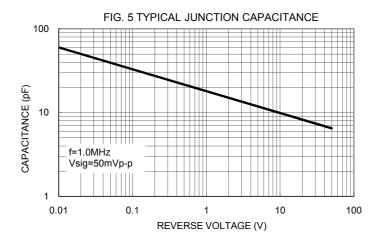


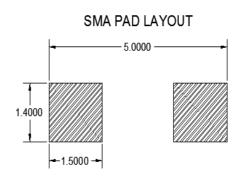
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