

FM1H01-RM Thru FM1H07-RM

List

List.....	1
Package outline.....	2
Features.....	2
Mechanical data.....	2
Maximum ratings and Electrical characteristics.....	2
Rating and characteristic curves.....	3

FM1H01-RM Thru FM1H07-RM

1.0A General Purpose Rectifiers : 50V ~ 1000V

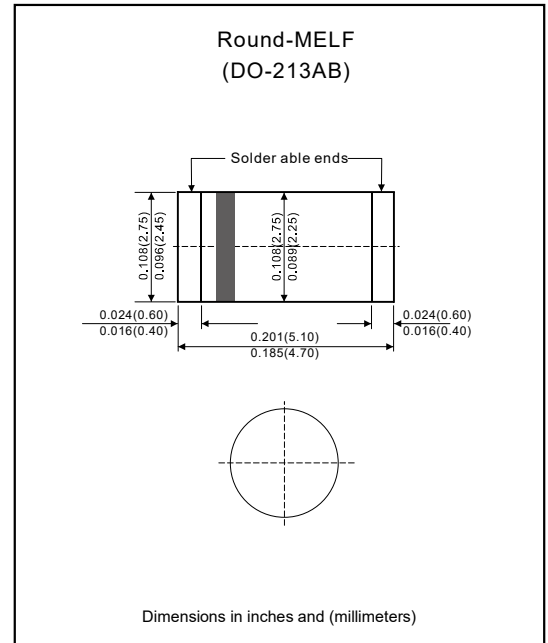
Features

- Idea for surface mounted applications.
- Glass passivated device.
- Low leakage current.
- Metallurgically bonded construction.
- Lead-free parts meet RoHS requirements.
- Suffix "-H" indicates Halogen free parts, ex. FM1H01-RM-H.

Mechanical data

- Epoxy:UL94-V0 rated flame retardant.
- Case : Molded plastic over passivated chip, Round-MELF (DO-213AB).
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity : Color band denotes cathode end.
- Mounting Position : Any.

Package outline



Maximum ratings and electrical characteristics (At $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	FM1H01 -RM	FM1H02 -RM	FM1H03 -RM	FM1H04 -RM	FM1H05 -RM	FM1H06 -RM	FM1H07 -RM	Unit
Repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average forward rectified current at T _A =75°C	I _O	1.0							A
Peak forward surge current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							A
Instantaneous forward voltage at 1.0A	V _F	1.1							V
DC reverse current T _A =25°C	I _R	5							μA
at rated DC blocking voltage T _A =125°C		50							
Typical junction capacitance (Note1)	C _J	15							pF
Thermal resistance, junction Lead (Note2)	R _{θJL}	20							°C/W
Thermal resistance, junction to ambient (Note3)	R _{θJA}	50							°C/W
Operating junction temperature	T _J	+175							°C
Storage temperature range	T _{STG}	-55 to +175							°C

Note : 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to lead, 6.0mm² copper pads to each terminal.

3. Thermal resistance junction to ambient, 6.0mm² copper pads to each terminal.

4. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

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Rating and characteristic curves

