

High Voltage Rectifying Diode

MD8CH3

● **Features**

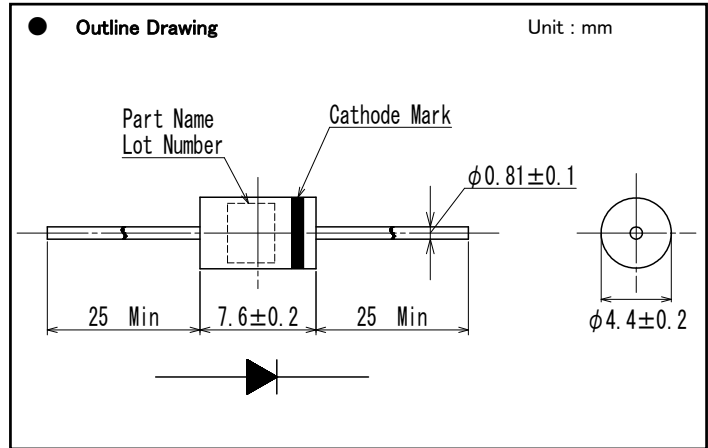
- VRM=4kV to 150kV
- Avalanche characteristics

● **Applications**

- Rectifier for High Frequency

● **Structures**

- Resin molded, and diffused junction silicon diode.
- Part Name : [8H3]
- Weight : 0.55g
- Terminal plating : Sn
- Conforms to RoHS regulations



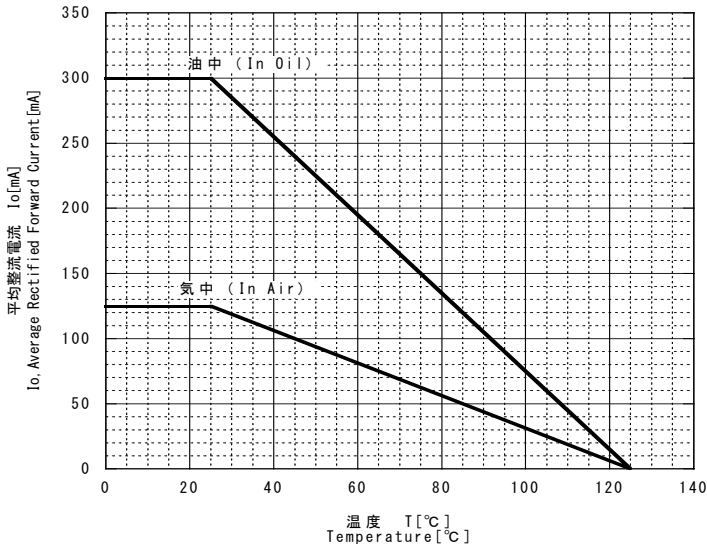
● **Absolute Maximum Ratings**

Items	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RM}	In Oil	8	kV
		In Air	4	
Average Rectified Forward Current	I_O	In Oil $T_o=25^\circ\text{C}$, 50Hz,Single-phase,Half sin Wave	300	mA
		In Air $T_a=25^\circ\text{C}$, 50Hz,Single-phase,Half sin Wave	125	
Peak Forward Surge Current	I_{SM}	$T_a=25^\circ\text{C}$, 50Hz,Half sin wave, Peak, Non-Repeative	30	A
Operating Junction Temperature	T_j	—	-30~+125	$^\circ\text{C}$
Storage Temperature	T_{stg}	—	-30~+125	$^\circ\text{C}$

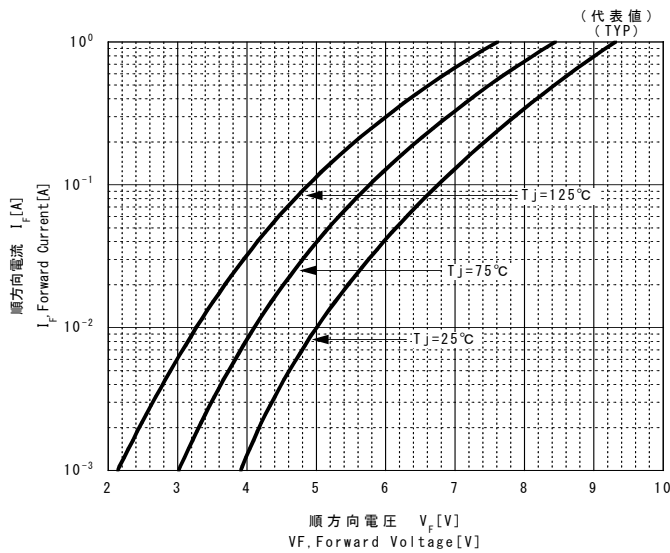
● **Electrical Characteristics ($T_a=25^\circ\text{C}$)**

Items	Symbol	Conditions	MAX.	Unit
Forward Voltage Drop	V_F	$I_F=300\text{mA}$	10	V
Reverse Leakage Current	I_R	$V_R=6.4\text{kV}$	10	μA
Reverse Recovery Time	t_{rr}	$I_F=100\text{mA}$, $I_R=200\text{mA}$, $I_{RR}=50\text{mA}$	500	ns

● Characteristics Diagrams



AVERAGE RECTIFIED FORWARD CURRENT



FORWARD CHARACTERISTICS