

High Voltage Rectifying Diode

MD8CP5

● **Features**

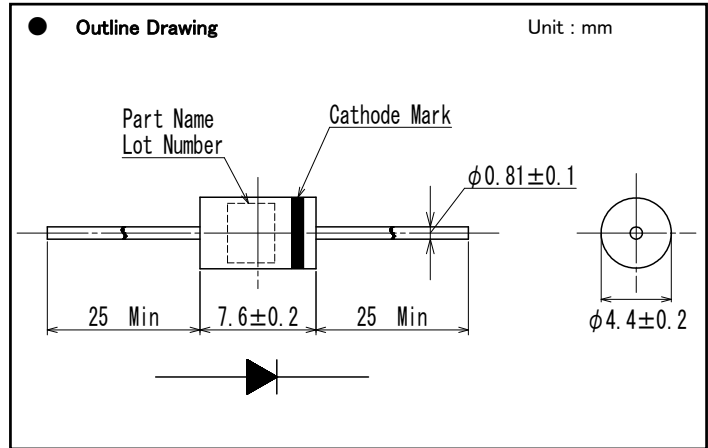
- VRM=4kV to 150kV
- Avalanche characteristics

● **Applications**

- Rectifier for High Frequency

● **Structures**

- Resin molded, and diffused junction silicon diode.
- Part Name : [8CP5]
- Weight : 0.6g
- 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 $T_o=25^{\circ}C$, 50Hz,Single-phase,Half sin Wave	500	mA
		In Air $T_a=25^{\circ}C$, 50Hz,Single-phase,Half sin Wave	250	
Peak Forward Surge Current	I_{SM}	$T_a=25^{\circ}C$, 50Hz,Half sin wave, Peak, Non-Repeative	20	A
Operating Junction Temperature	T_j	—	-30~+150	$^{\circ}C$
Storage Temperature	T_{stg}	—	-30~+150	$^{\circ}C$

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

Items	Symbol	Conditions	MAX.	Unit
Forward Voltage Drop	V_F	$I_F=500mA$	14	V
Reverse Leakage Current	I_R	$V_R=8kV$	10	μA
Reverse Recovery Time	t_{rr}	$I_F=100mA, I_R=200mA, I_{RR}=100mA$	75	ns

● Characteristics Diagrams

