Silicon Surge Clampers

SC1.5K7

● **Features**

- Fast response time(10^{-12}sec)
- Stable absorbing performance.
- Low clamping ratio.

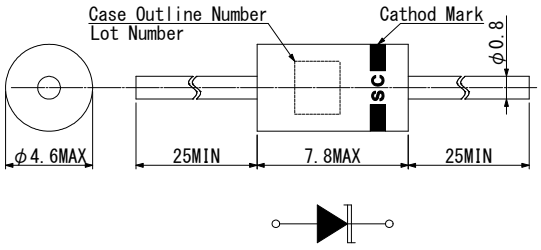
● **Applications**

- Surge voltage clamping.

● **Structures**

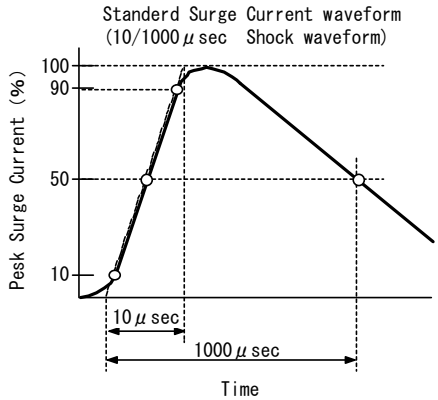
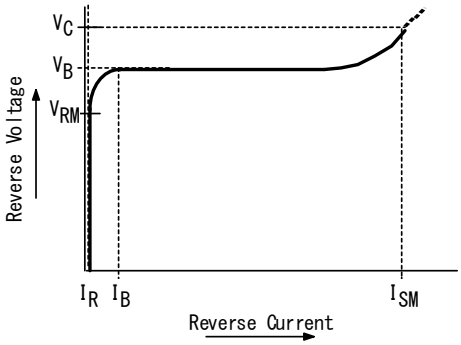
- Resin molded, and diffused junction silicon diode.
- Marking symbol : [1.5K7]
- Weight : 0.55g
- Terminal plating : Cu
- Conforms to RoHS regulations.

● **Outline Drawing** Unit : mm



● **Absolute Maximum Ratings**

Items	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}	Ta=25℃	6	V
Maximum Surge Current	I_{SM}	Ta=25℃, 10/1000μs shock wave, Non-Repetitive	140	A
Operating Junction Temperature	T_j	—	-40～+125	℃
Storage Temperature	T_{stg}	—	-40～+125	℃

● **Electrical Characteristics (Ta=25℃)**

Items	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Clamping Voltage	V_C	I_S=140A	—	—	10.5	V
Break Down Voltage	V_B	I_R=1mA	6.75	-	8.25	V
Leakage Current	I_R	V_R=6V	—	—	500	μA