

ESD Protection Devices (TVS)

RSA5L

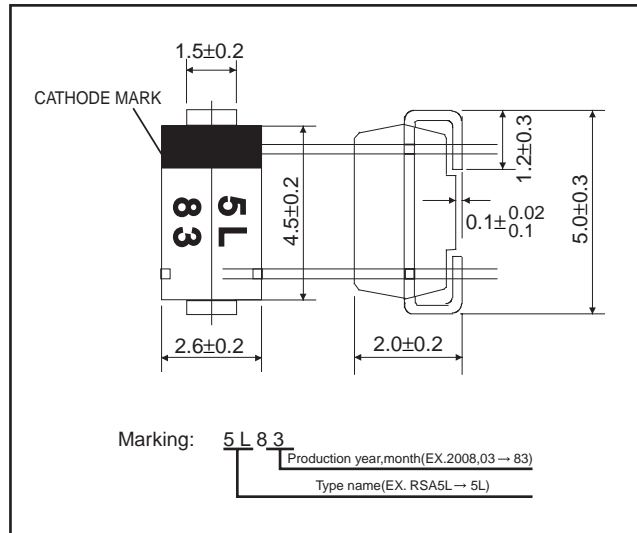
●Description

RSA5L is small but high-power device encapsulated in PMDS (4.5x2.6mm) package and is high ESD-resistant device, suitable for surge protection circuit in all appliances like consumer electronics and automotive application.

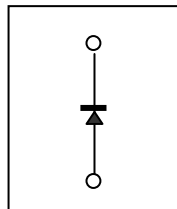
●Features

- 1) Small, power mold type. (PMDS)
- 2) High reliability.

●Dimensions (Unit : mm)



● Structure



● Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|---------------------------------|------------------|-------------|------|
| Peak pulse power (tp=10x1000μs) | Ppk | 600 | W |
| Stand-off voltage | V _{RWM} | 5.8 | V |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

● Electrical characteristic (Ta=25°C)

| Parameter | Symbol | Min. | Max. | Unit | Conditions |
|-------------------|--------------------------|------|------|------|------------------------|
| Breakdown voltage | V _{BR} | 6.45 | 7.14 | V | I _T =10mA |
| Clamping voltage | V _C 10/1000μS | - | 10.5 | V | I _{pp} =57A |
| Reverse current | I _R | - | 800 | μA | V _{RWM} =5.8V |

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