

ULTRA HIGH SPEED SWITCHING APPLICATION.

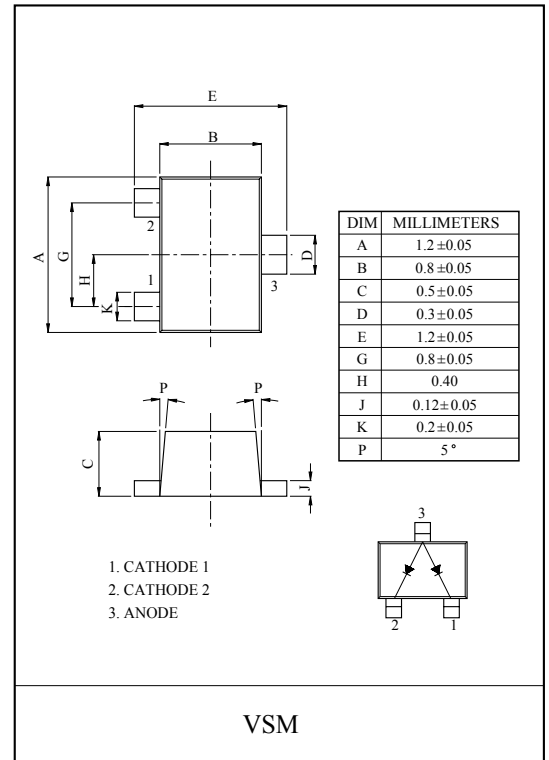
### FEATURES

- Very Small Package : VSM.
- Low Forward Voltage :  $V_F=0.92V$  (Typ.).
- Fast Reverse Recovery Time :  $t_{rr}=1.6ns$ (Typ.).
- Small Total Capacitance :  $C_T=2.2pF$  (Typ.).

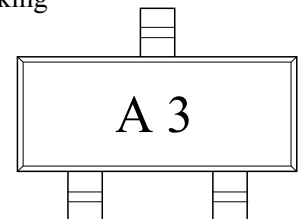
### MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC                 | SYMBOL    | RATING    | UNIT |
|--------------------------------|-----------|-----------|------|
| Maximum (Peak) Reverse Voltage | $V_{RM}$  | 85        | V    |
| Reverse Voltage                | $V_R$     | 80        | V    |
| Maximum (Peak) Forward Current | $I_{FM}$  | 300 *     | mA   |
| Average Forward Current        | $I_O$     | 100 *     | mA   |
| Surge Current (10ms)           | $I_{FSM}$ | 2 *       | A    |
| Power Dissipation              | $P_D$     | 100       | mW   |
| Junction Temperature           | $T_j$     | 150       | °C   |
| Storage Temperature Range      | $T_{stg}$ | -55 ~ 150 | °C   |

Note : \* Unit Rating. Total Rating=Unit Rating x 1.5



### Marking



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC        | SYMBOL     | TEST CONDITION  | MIN. | TYP. | MAX. | UNIT    |
|-----------------------|------------|-----------------|------|------|------|---------|
| Forward Voltage       | $V_{F(1)}$ | $I_F=1mA$       | -    | 0.61 | -    | V       |
|                       | $V_{F(2)}$ | $I_F=10mA$      | -    | 0.74 | -    |         |
|                       | $V_{F(3)}$ | $I_F=100mA$     | -    | 0.92 | 1.20 |         |
| Reverse Current       | $I_R$      | $V_R=80V$       | -    | -    | 0.5  | $\mu A$ |
| Total Capacitance     | $C_T$      | $V_R=0, f=1MHz$ | -    | 2.2  | 4.0  | pF      |
| Reverse Recovery Time | $t_{rr}$   | $I_F=10mA$      | -    | 1.6  | 4.0  | nS      |