

LOW VOLTAGE HIGH SPEED SWITCHING.

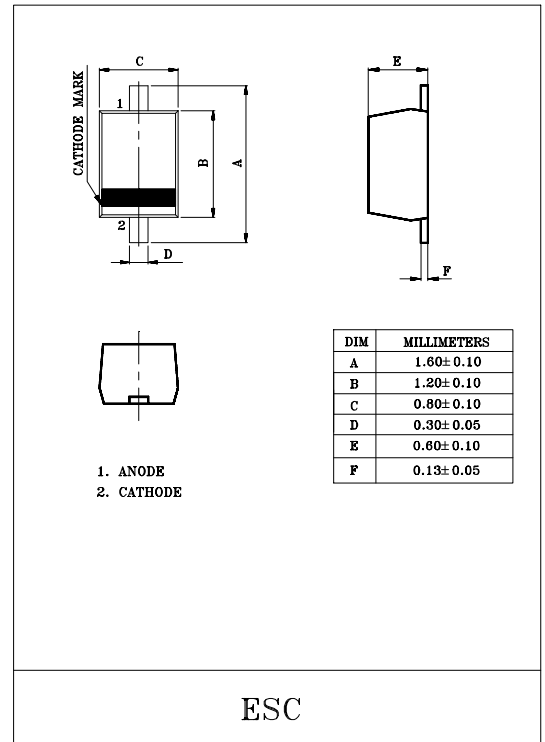
#### FEATURES

- Low Forward Voltage :  $V_{F(2)}=0.42(\text{Typ.})$
- Small Package : ESC.

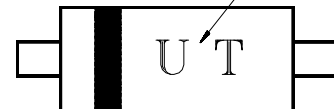
#### MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ )

| CHARACTERISTIC                 | SYMBOL    | RATING  | UNIT             |
|--------------------------------|-----------|---------|------------------|
| Maximum (Peak) Reverse Voltage | $V_{RM}$  | 30      | V                |
| Reverse Voltage                | $V_R$     | 30      | V                |
| Maximum (Peak) Forward Current | $I_{FM}$  | 150     | mA               |
| Average Forward Current        | $I_O$     | 30      | mA               |
| Surge Current (10ms)           | $I_{FSM}$ | 200     | mA               |
| Power Dissipation              | $P_D$     | 150*    | mW               |
| Junction Temperature           | $T_j$     | 150     | $^\circ\text{C}$ |
| Storage Temperature Range      | $T_{stg}$ | -55~150 | $^\circ\text{C}$ |

\* : Mounted on a glass epoxy circuit board of  $20 \times 20\text{mm}$ ,  
pad dimension of  $4 \times 4\text{mm}$ .



Marking      Type Name



#### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

| CHARACTERISTIC    | SYMBOL     | TEST CONDITION                 | MIN. | TYP. | MAX. | UNIT          |
|-------------------|------------|--------------------------------|------|------|------|---------------|
| Forward Voltage   | $V_{F(1)}$ | $I_F=1\text{mA}$               | -    | 0.3  | 0.4  | V             |
|                   | $V_{F(2)}$ | $I_F=30\text{mA}$              | -    | 0.42 | 0.55 |               |
| Reverse Current   | $I_R$      | $V_R=30\text{V}$               | -    | -    | 300  | $\mu\text{A}$ |
| Total Capacitance | $C_T$      | $V_R=1\text{V}, f=1\text{MHz}$ | -    | 6.5  | -    | pF            |