

LOW VOLTAGE HIGH SPEED SWITCHING.

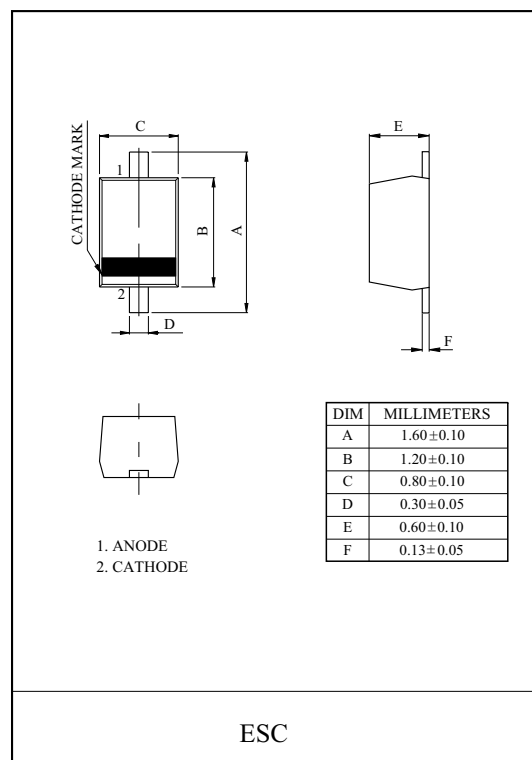
#### FEATURES

- Low Forward Voltage :  $V_{F(2)}=0.43V$  (Typ.)
- Small Package : ESC.

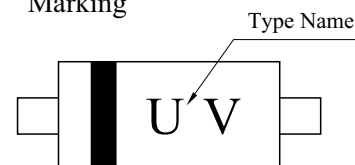
#### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                 | SYMBOL    | RATING    | UNIT |
|--------------------------------|-----------|-----------|------|
| Maximum (Peak) Reverse Voltage | $V_{RM}$  | 40        | V    |
| Reverse Voltage                | $V_R$     | 40        | 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           | $T_j$     | 125       | °C   |
| Storage Temperature Range      | $T_{stg}$ | -55 ~ 125 | °C   |

\* : Mounted on a glass epoxy circuit board of 20 × 20mm,  
pad dimension of 4 × 4mm.



#### Marking



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

| CHARACTERISTIC    | SYMBOL     | TEST CONDITION   | MIN. | TYP. | MAX. | UNIT |
|-------------------|------------|------------------|------|------|------|------|
| Forward Voltage   | $V_{F(1)}$ | $I_F=1mA$        | -    | 0.29 | 0.37 | V    |
|                   | $V_{F(2)}$ | $I_F=30mA$       | -    | 0.43 | 0.55 |      |
| Reverse Current   | $I_R$      | $V_R=40V$        | -    | -    | 20   | μA   |
| Total Capacitance | $C_T$      | $V_R=1V, f=1MHz$ | -    | 6.0  | -    | pF   |

# KDR377E

