

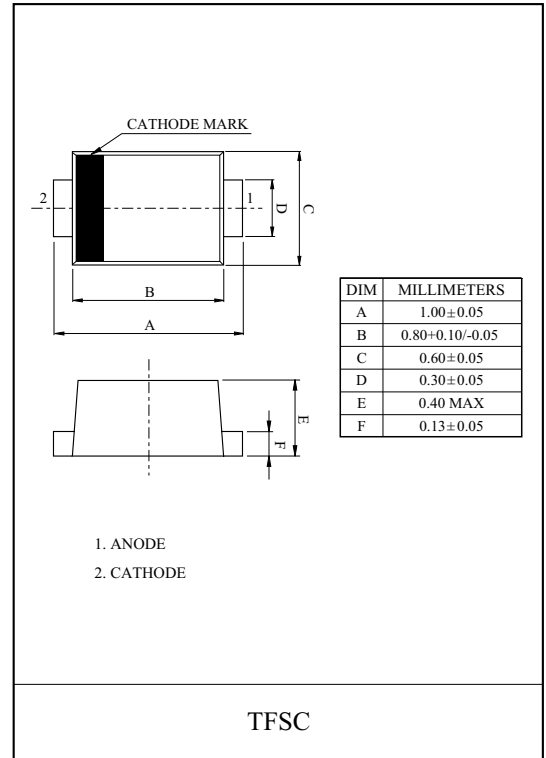
For antenna switches in mobile applications.

### FEATURES

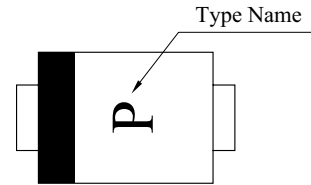
- Low Capacitance :  $C_T=0.35[\text{pF}]$  (Max.)
- Low Series resistance :  $r_s=1.5[\Omega]$  (Max.)
- Small Package : TFSC.

### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC            | SYMBOL    | RATING    | UNIT |
|---------------------------|-----------|-----------|------|
| Reverse Voltage           | $V_R$     | 30        | V    |
| Forward Current           | $I_F$     | 100       | mA   |
| Junction Temperature      | $T_j$     | 150       | °C   |
| Storage Temperature Range | $T_{stg}$ | -55 ~ 150 | °C   |



### Marking



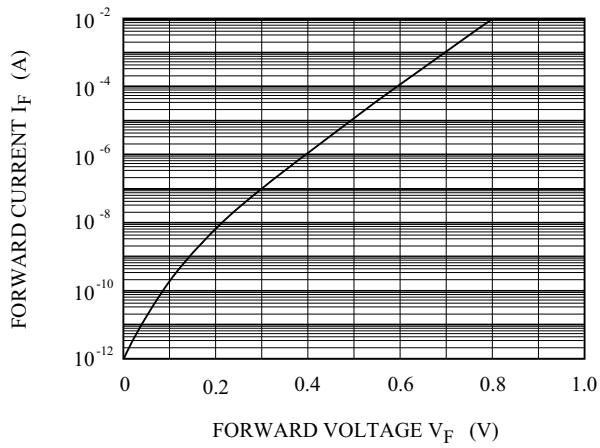
### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC    | SYMBOL | TEST CONDITION  | MIN. | TYP. | MAX. | UNIT     |
|-------------------|--------|---|------|------|------|----------|
| Reverse Current   | $I_R$  | $V_R=30V$   | -    | -    | 0.1  | $\mu A$  |
| Forward Voltage   | $V_F$  | $I_F=10mA$  | -    | -    | 1.0  | V        |
| Total Capacitance | $C_T$  | $V_R=1V, f=1MHz$  | -    | -    | 0.35 | pF       |
| Series Resistance | $r_s$  | $I_F=10mA, f=100MHz$  | -    | -    | 1.3  | $\Omega$ |
| ESD-Capability *  | -      | $C=200pF, R=0\Omega$ ,<br>Both forward and reverse<br>direction 1 pulse | 100  | -    | -    | V        |

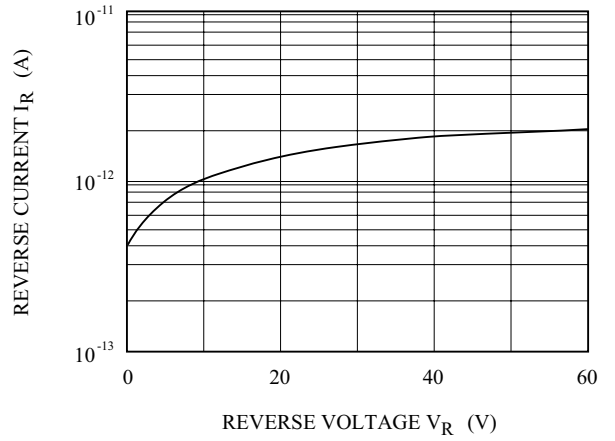
\* Failure criterion :  $I_R > 100nA$  at  $V_R = 30V$ .

# KDV142F

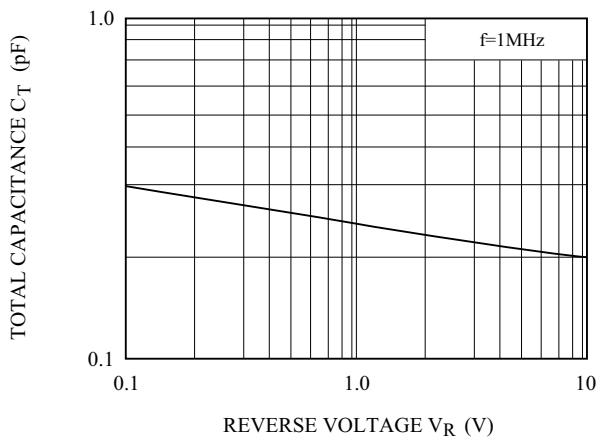
$I_F - V_F$



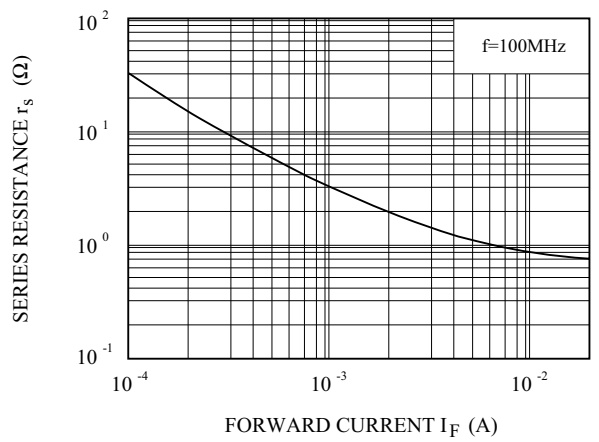
$I_R - V_R$



$C_T - V_R$



$r_s - I_F$



$r_p - V_F$

