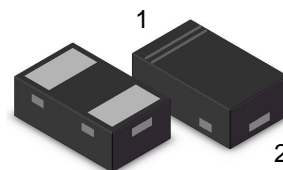


Schottky Barrier Diodes

FEATURES

- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.
- We declare that the material of product compliance with RoHS requirements.



DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|----------|---------|-----------------|
| MSK4010D | KX | 10000/Tape&Reel |



MAXIMUM RATINGS(Ta = 25°C)

SOD-882

| Parameter | Symbol | Limits | Unit |
|------------------------------------|--------|--------|------|
| Reverse Voltage | VR | 40 | V |
| Forward Current | IF | 1 | A |
| Peak forward surge current (8.3ms) | IFSM | 3 | A |

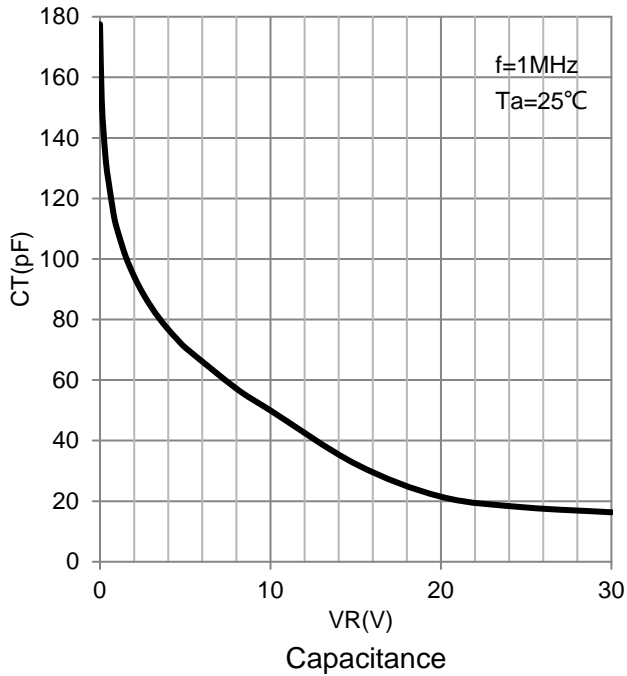
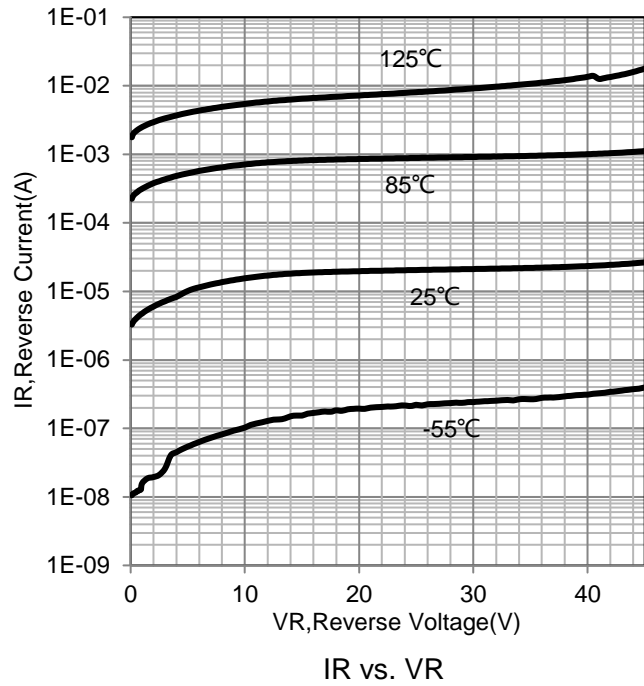
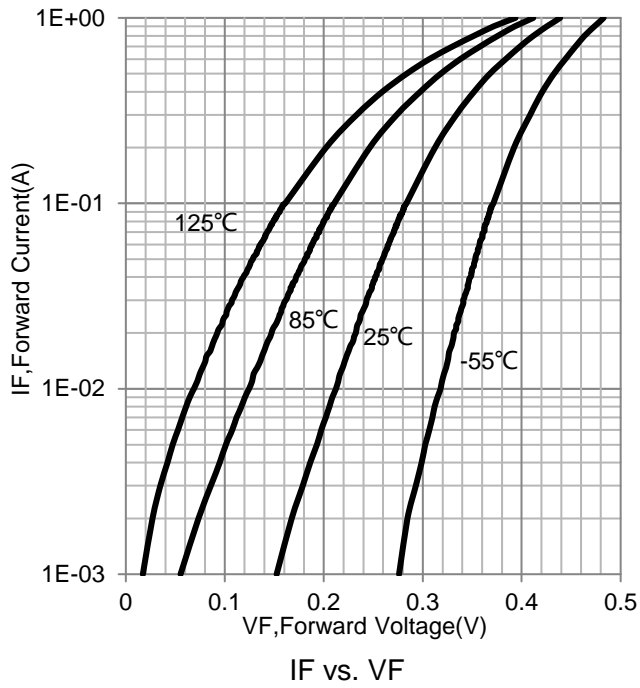
THERMAL CHARACTERISTICS

| Parameter | Symbol | Limits | Unit |
|---|--------|----------|-------------|
| Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C | PD | 250 4 | mW mW/°C |
| Thermal Resistance, Junction-to-Ambient | RθJA | 400 | °C/W |
| Junction Temperature | TJ | 125 | °C |
| Storage temperature | Tstg | -55~+150 | °C |

1.FR-4 Minimum Pad.

ELECTRICAL CHARACTERISTICS (Ta= 25 °C)

| Characteristic | Symbol | Min. | Typ. | Max. | Unit |
|--|--------|------------------|------------------|-----------------------------|------|
| Reverse Breakdown Voltage (IR = 100μA) | VBR | 40 | - | - | V |
| Reverse Voltage Leakage Current (VR = 10V) (VR = 40V) | IR | - - | - - | 30 100 | μA |
| Forward Voltage (IF = 100mA) (IF = 500mA) (IF = 700mA) (IF = 1A) | VF | - - - - | - - - - | 0.39 0.5 0.53 0.58 | V |



PACKAGE DIMENSIONS

SOD-882

DIMENSION OUTLINE Unit:mm

