

Schottky Barrier Diode, 2A, 60V Type

FEATURES

| | |
|---------------------------------|-----------------------|
| Forward Voltage | : $V_F=0.615V$ (TYP.) |
| Forward Current | : $I_{F(AV)}=2A$ |
| Repetitive Peak Reverse Voltage | : $V_{RM}=60V$ |

APPLICATIONS

- Rectification
- Protection against reverse connection of battery

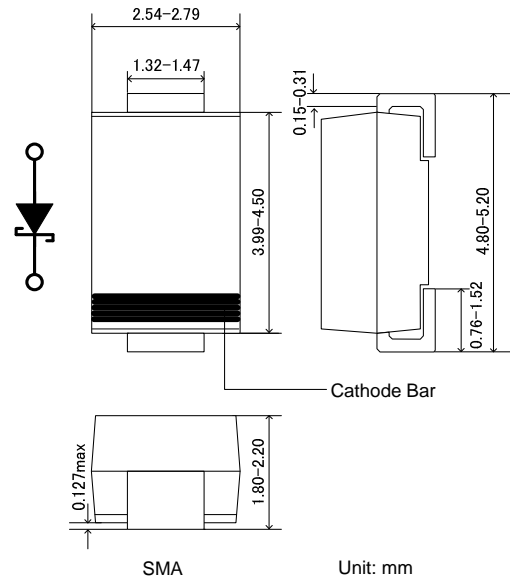
ABSOLUTE MAXIMUM RATINGS

 $T_a=25$

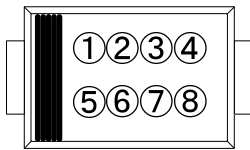
| PARAMETER | SYMBOL | RATINGS | UNIT |
|--|-------------|------------|------|
| Repetitive Peak Reverse Voltage | V_{RM} | 60 | V |
| Reverse Voltage (DC) | V_R | 60 | V |
| Forward Current (Average) | $I_{F(AV)}$ | 2 | A |
| Non Continuous Forward Surge Current ^{*1} | I_{FSM} | 45 | A |
| Junction Temperature | T_j | 125 | |
| Storage Temperature Range | T_{stg} | -55 ~ +150 | |

*1 : Non continuous high amplitude 60Hz half-sine wave.

PACKAGING INFORMATION



MARKING RULE



: 206S17(Product Number)
: Assembly Lot Number

PRODUCT NAME

| PRODUCT NAME | DEVICE ORIENTATION |
|--------------|----------------------------------|
| XBS206S17 | R : Embossed tape, standard feed |

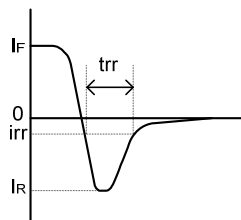
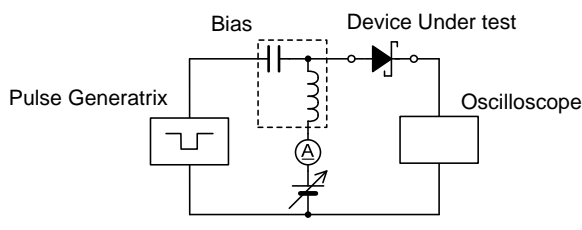
* Please put the device orientation type "R".

ELECTRICAL CHARACTERISTICS

 $T_a=25$

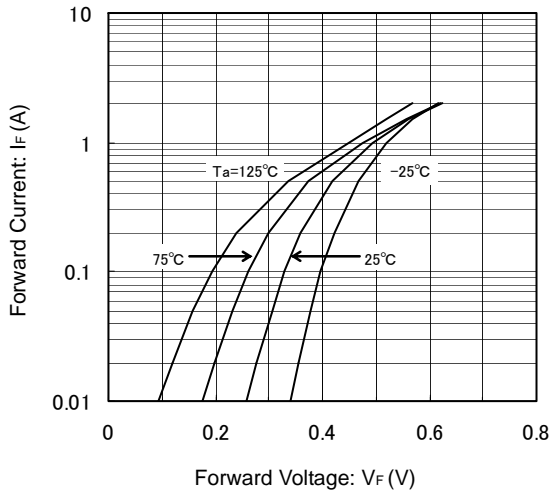
| PARAMETER | SYMBOL | TEST CONDITIONS | LIMITS | | | UNIT |
|-------------------------------------|----------|-------------------------|--------|-------|-------|---------|
| | | | MIN. | TYP. | MAX. | |
| Forward Voltage | V_{F1} | $I_F=200\mu A$ | - | 0.15 | - | V |
| | V_{F2} | $I_F=2A$ | - | 0.615 | 0.665 | V |
| Reverse Current | I_{R1} | $V_R=30V$ | - | 2.5 | - | μA |
| | I_{R2} | $V_R=60V$ | - | 10 | 300 | μA |
| Inter-Terminal Capacity | C_t | $V_R=1V, f=1MHz$ | - | 120 | - | pF |
| Reverse Recovery Time ^{*2} | t_{rr} | $I_F=I_R=10mA, irr=1mA$ | - | 35 | - | ns |

*2 : t_{rr} measurement circuit

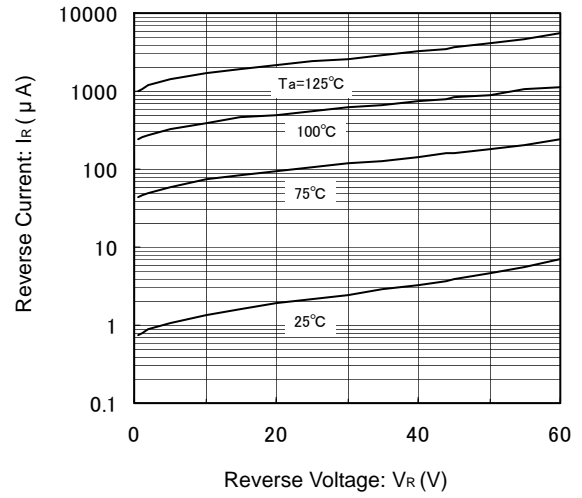


TYPICAL PERFORMANCE CHARACTERISTICS

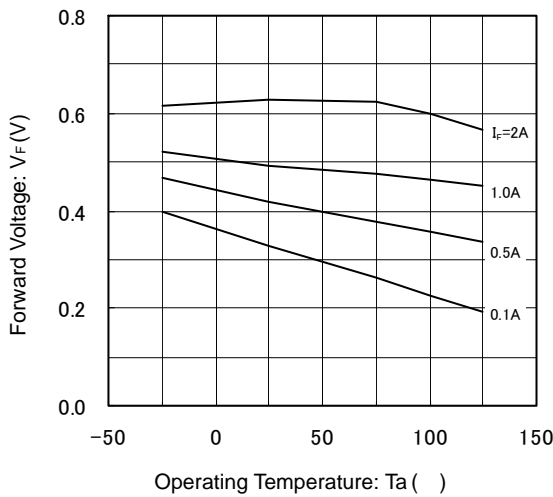
(1) Forward Current vs. Forward Voltage



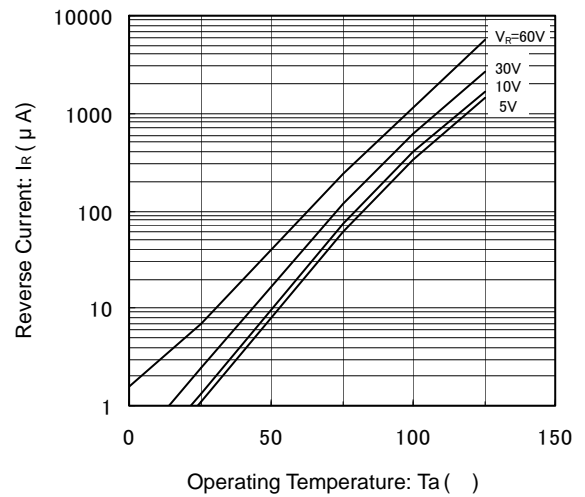
(2) Reverse Current vs. Reverse Voltage



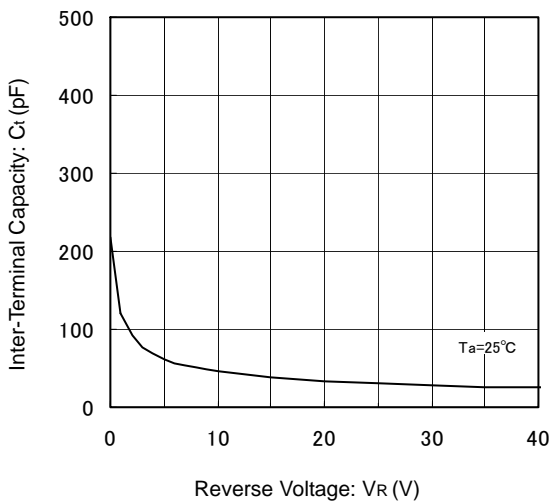
(3) Forward Voltage vs. Operating Temperature



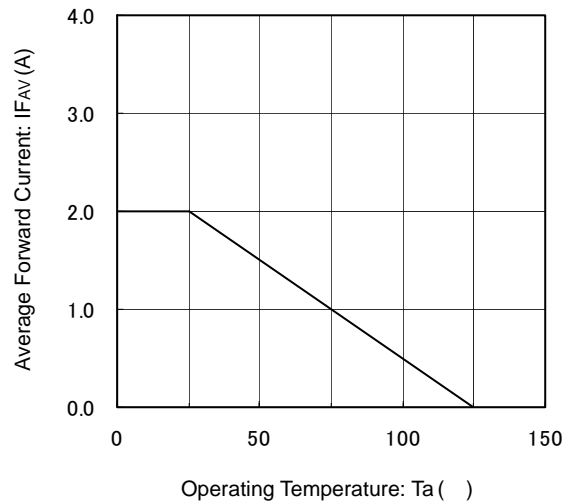
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



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