

1. Scope

The present specifications shall apply to an EK16.

2. Outline

| | |
|--------------|--------------------------------|
| Type | Silicon Schottky Barrier Diode |
| Structure | Resin Molded |
| Applications | High Frequency Rectification |

3. Flammability

UL94V-0(Equivalent)

Not Recommended for New Designs

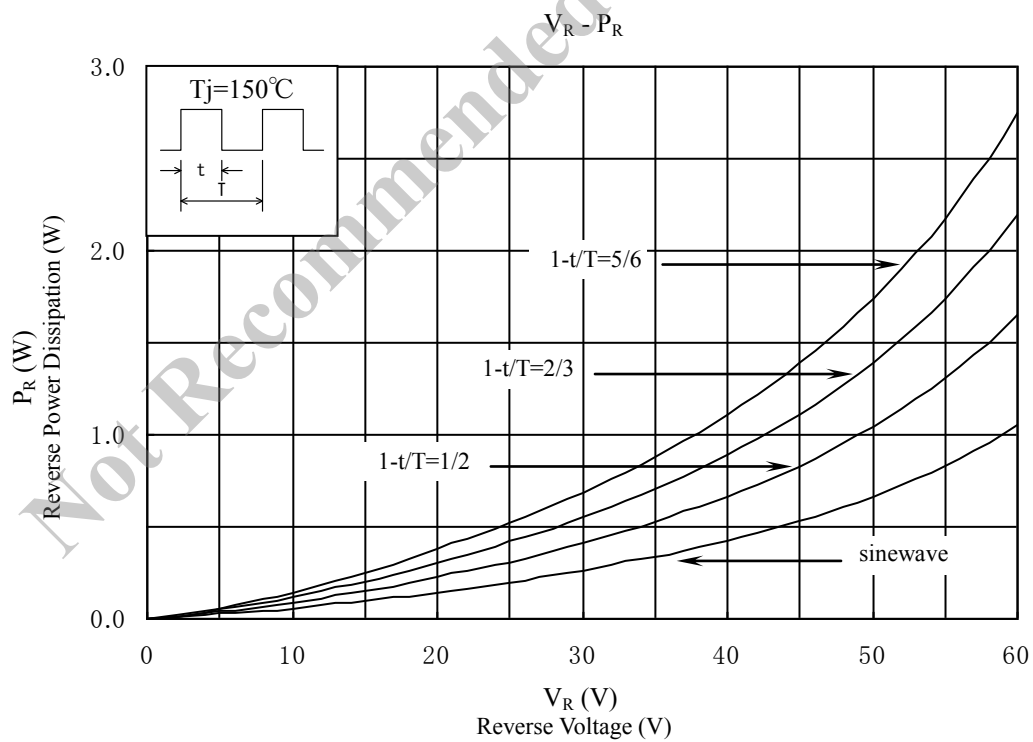
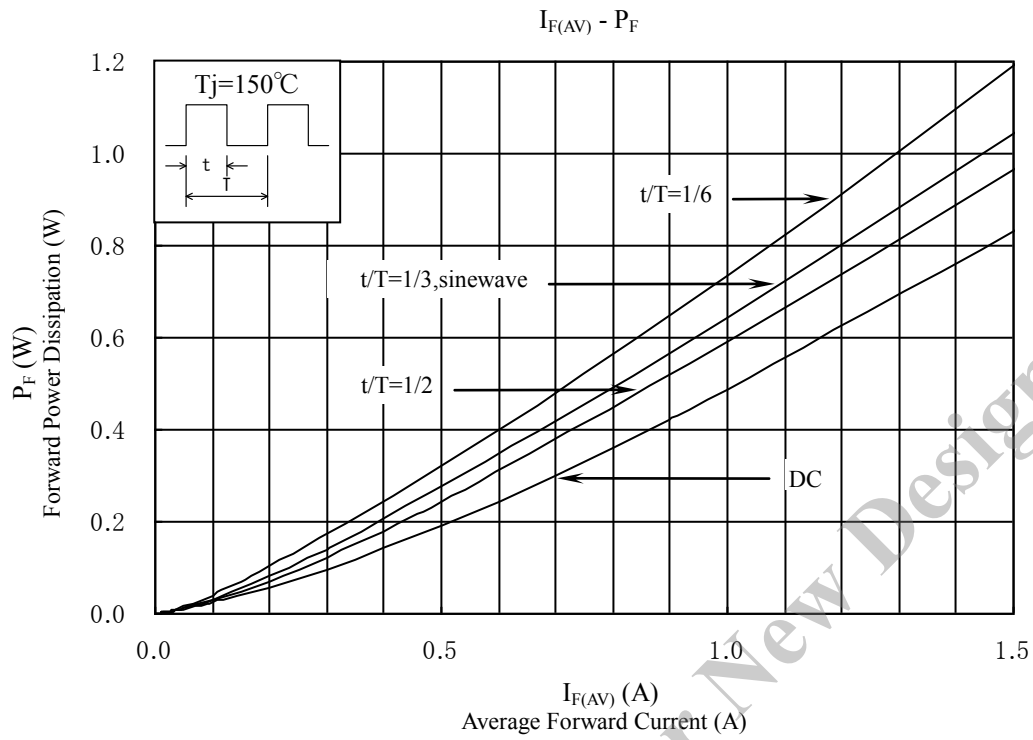
4. Absolute maximum ratings

| No. | Item | Symbol | Unit | Rating | Conditions |
|-----|--------------------------------|-------------|-------------|----------|------------------------------------|
| 1 | Transient Peak Reverse Voltage | V_{RSM} | V | 60 | |
| 2 | Peak Reverse Voltage | V_{RM} | V | 60 | |
| 3 | Average Forward Current | $I_{F(AV)}$ | A | 1.5 | Refer to Derating of 7 |
| 4 | Peak Surge Forward Current | I_{FSM} | A | 25 | 10msec. Half sinewave, one shot |
| 5 | I^2t Limiting Value | I^2t | A^2s | 3.1 | $1msec \leq t \leq 10msec$ |
| 6 | Junction Temperature | T_j | $^{\circ}C$ | -40~+150 | |
| 7 | Storage Temperature | T_{stg} | $^{\circ}C$ | -40~+150 | |

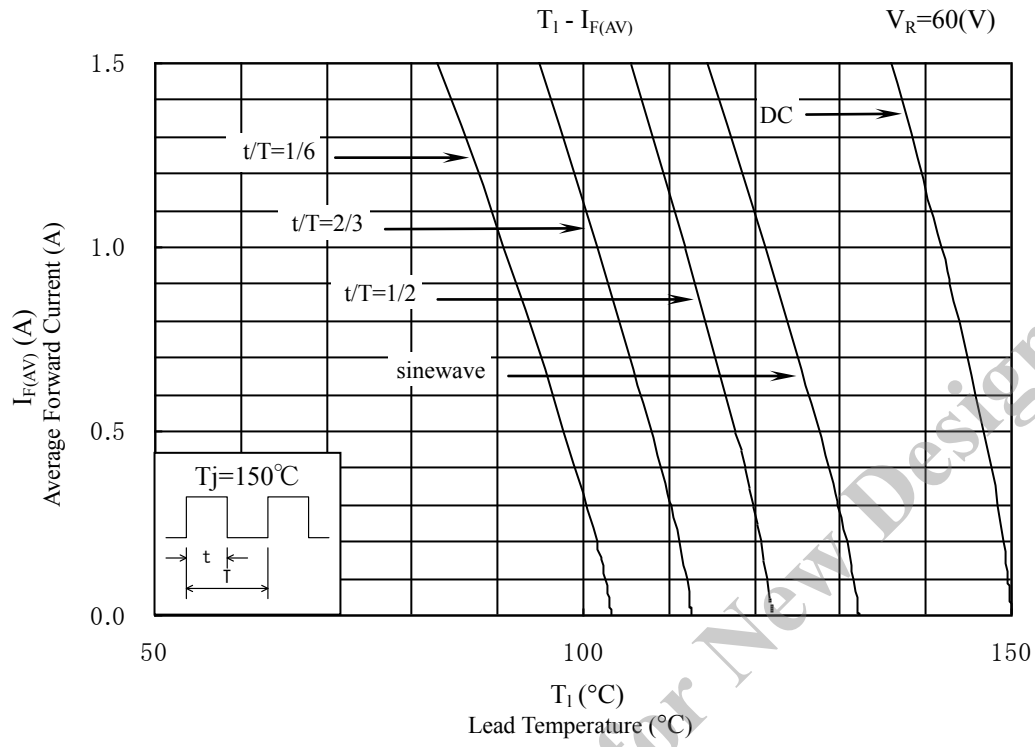
5. Electrical characteristics

| No. | Item | 記号 Symbol | 単位 Unit | 特 性 Value | 条 件 Conditions |
|-----|--|---------------|---------------|--------------|--------------------------------|
| 1 | Forward Voltage Drop | V_F | V | 0.62 max. | $I_F=1.5A$ |
| 2 | Reverse Leakage Current | I_R | mA | 1.0 max. | $V_R=V_{RM}$ |
| 3 | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | mA | 55 max. | $V_R=V_{RM}, T_j=150^{\circ}C$ |
| 4 | Thermal Resistance | $R_{th(j-l)}$ | $^{\circ}C/W$ | 17 max. | Between Junction and Lead |

6. Characteristics



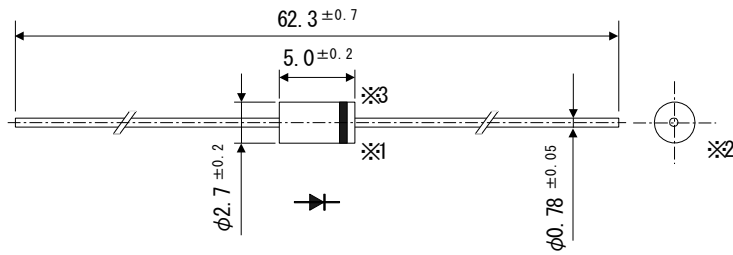
7. Derating



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8. Package information

8-1 Package type, physical dimensions and material



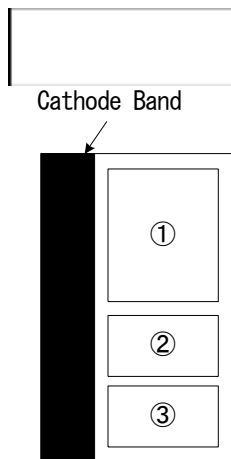
- *1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- *2 The centric allowance of lead wire against center of physical body is 0.2mm(max.)
- *3 The burr may exit up to 2mm from the body of lead

Dimensions in mm

8-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

8-3 Marking



- ① Type number EK16 is abbreviated as $\begin{matrix} K1 \\ 6 \end{matrix}$
- ② Lot number 1
 First digit: Last digit of Year
 Second digit: Month
 From 1 to 9 for Jan. to Sep.
 O for Oct., N for Nov., and D for Dec.
- ③ Lot number 2 (ten days)
 ∴ : Top of the month
 ∴∴ : Middle of month
 ∴∴∴ : End of month

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