

## 1. Scope

The present specifications shall apply to an EK09.

## 2. Outline

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

## 3. Flammability

UL94V-0(Equivalent)

*Not Recommended for New Designs*

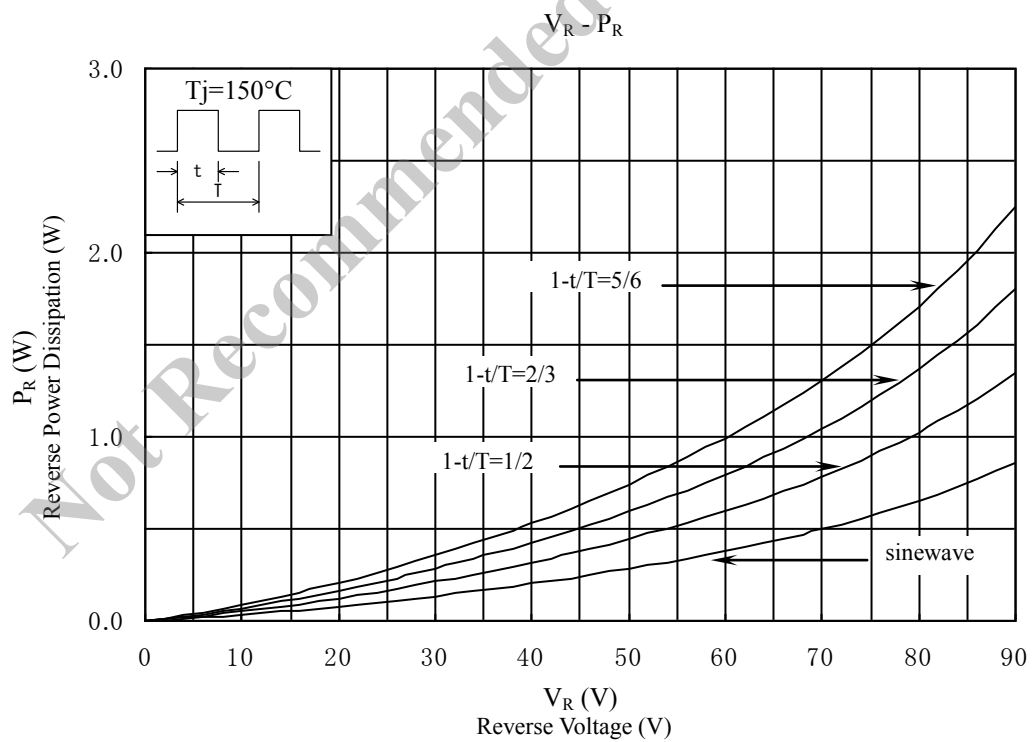
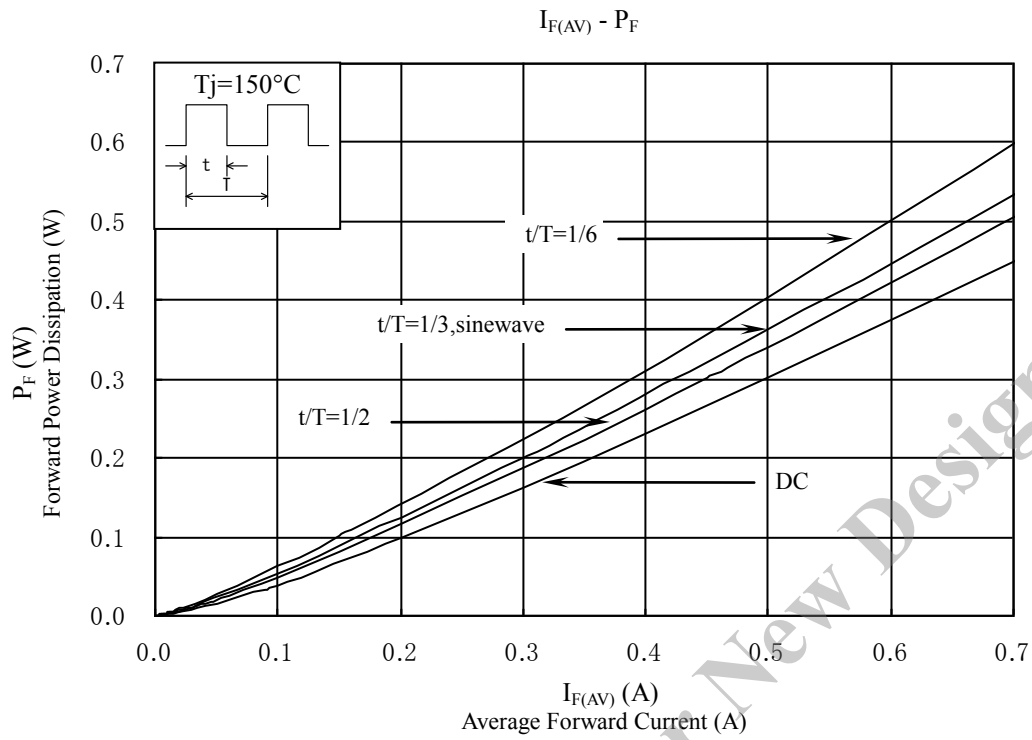
## 4. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{RSM}$	V	90	
2	Peak Reverse Voltage	$V_{RM}$	V	90	
3	Average Forward Current	$I_{F(AV)}$	A	0.7	Refer to Derating of 7
4	Peak Surge Forward Current	$I_{FSM}$	A	10	10msec. Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	0.5	$1\text{msec} \leq t \leq 10\text{msec}$
6	Junction Temperature	$T_j$	$^{\circ}C$	-40~+150	
7	Storage Temperature	$T_{stg}$	$^{\circ}C$	-40~+150	

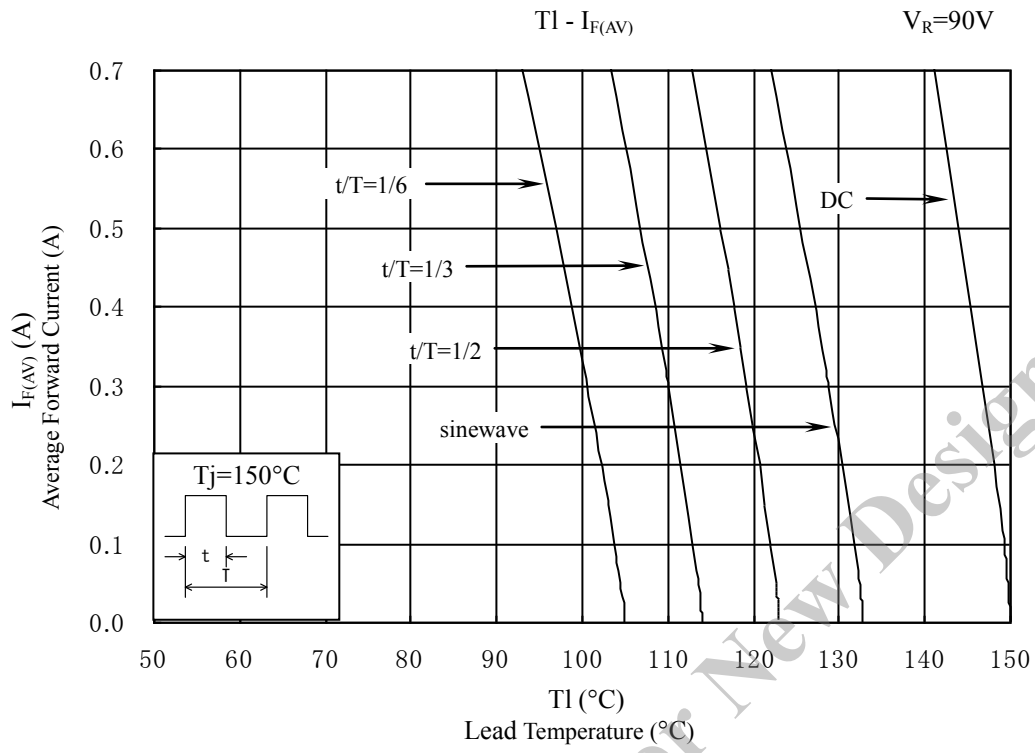
5. Electrical characteristics ( $T_a=25^{\circ}C$  , unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	0.81 max.	$I_F=0.7A$
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	30 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Thermal Resistance	$R_{th(j-l)}$	$^{\circ}C/W$	20 max.	Between Junction and Lead

6. Characteristics



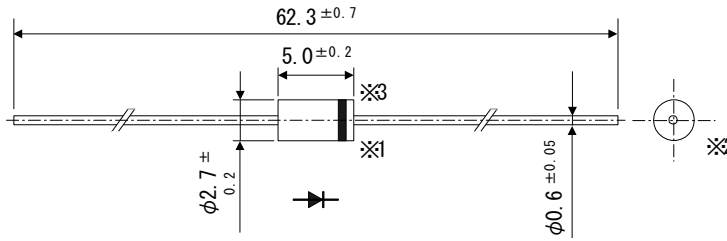
7. Derating



Not Recommended for New Designs

8. Package information

8-1 Package type, physical dimensions and material



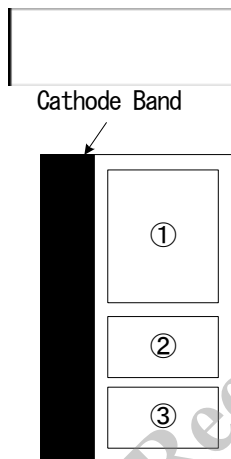
- \*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- \*2 The centric allowance of lead wire against center of physical body is 0.3mm(max.)
- \*3 The burr may exit up to 2mm from the body of lead

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 EK09 is abbreviated as  $\overset{K}{9}$
- 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