1. Scope

The present specifications shall apply to an AK09.

2. Outline

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

3. Flammability

UL94V-0(Equivalent)

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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	Junction Temperature	T_j	°C	-40~+150	
6	Storage Temperature	T_{stg}	°C	-40~+150	

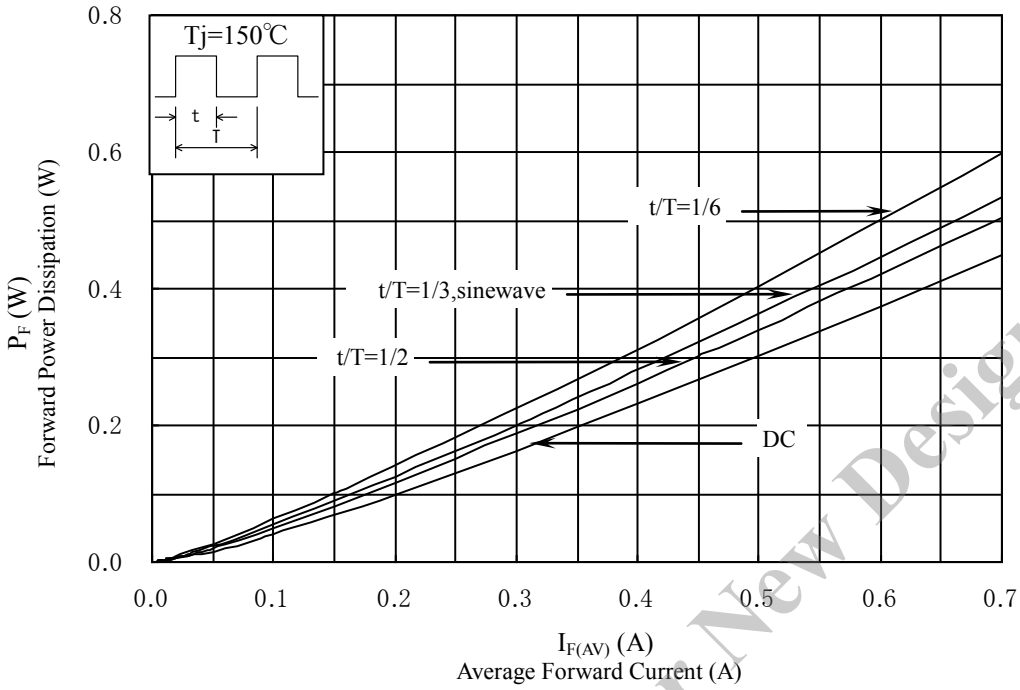
5. Electrical characteristics (Ta=25°C ， unless otherwise specified)

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・I_R	mA	30 max.	$V_R=V_{RM}$, T_j=150°C
4	Thermal Resistance	$R_{th(j-l)}$	°C /W	22 max.	Between Junction and Lead

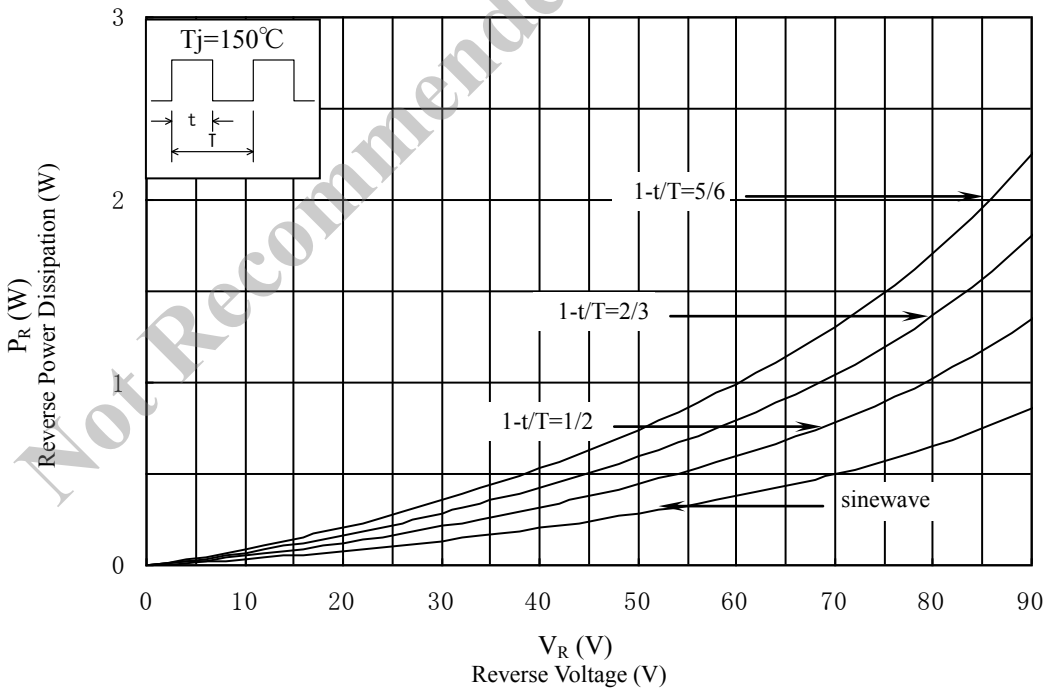
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6. Characteristics

$I_{F(AV)}$ - P_F

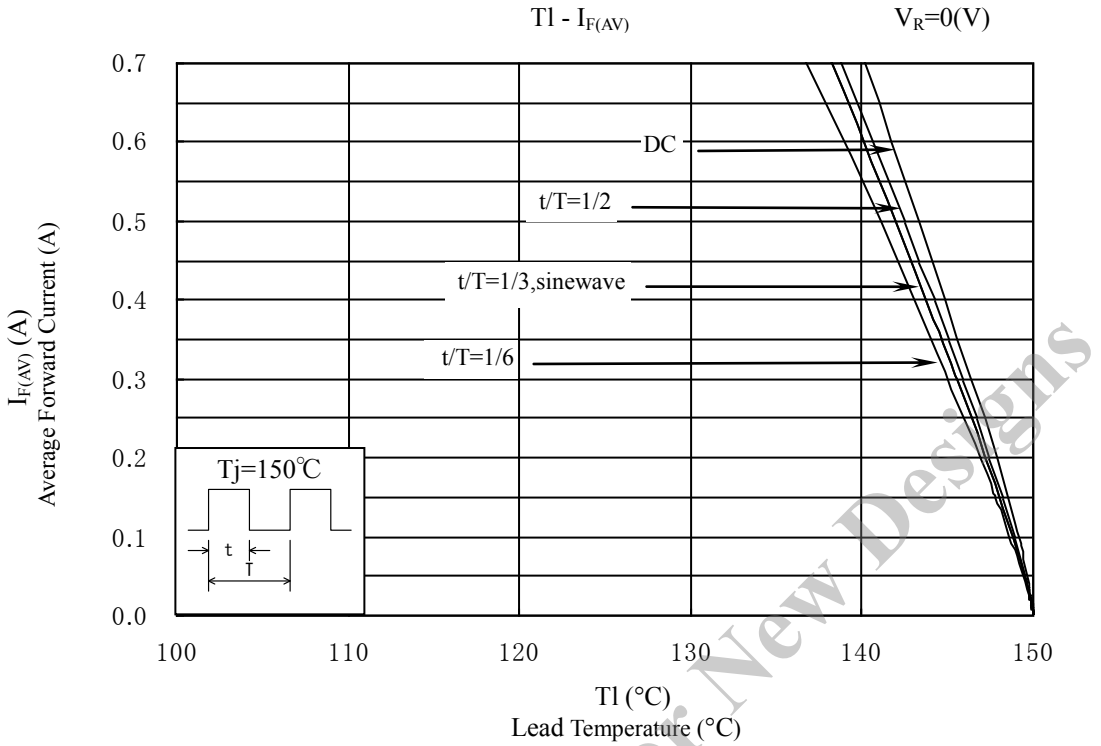


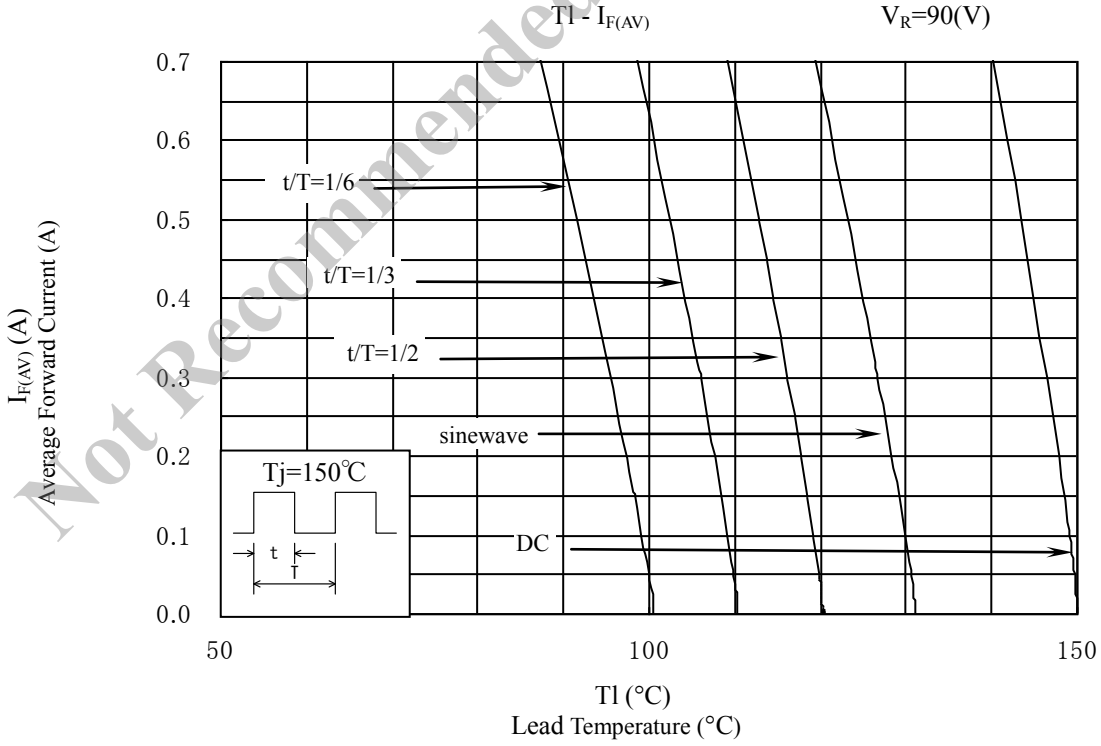
V_R - P_R



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7. Derating

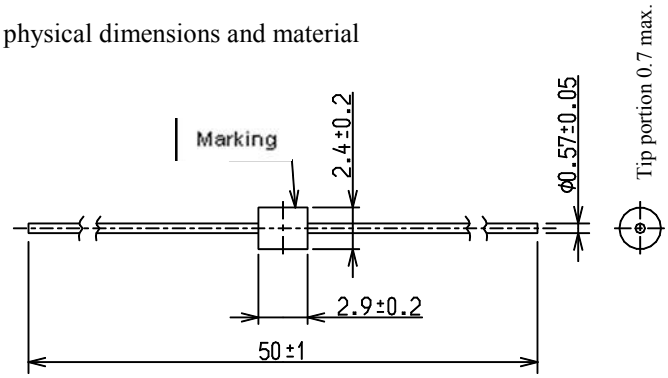




Not Recommended for New Designs

8. Package information

8-1Package type, physical dimensions and material



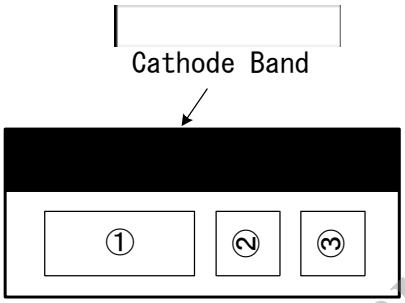
*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
*2 The centric allowance of lead wire against center of physical body is 0.3mm(max.)
*3 The burr may exit up to 2mm from the body of lead

Dimensions in mm

8-2Appearance

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

8-3 Marking



① Type number AK09 is abbreviated as K9

② Lot number 1
Last digit of Year

③ Lot number 2
Month
From 1 to 9 for Jan. to Sep.
O for Oct., N for Nov., and D for Dec

Not Recommended for New Designs