1. Scope

　　The present specifications shall apply to an RK46.

2. Outline

　　High Frequency Rectification

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	60	
2	Peak Reverse Voltage	V_{RM}	V	60	
3	Average Forward Current	$I_{F(AV)}$	A	3.5	Refer to Derating of 7
4	Peak Surge Forward Current	I_{FSM}	A	70	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	24.5	1msec≤t≤10msec
6	Junction Temperature	T_j	°C	-40~+150	
7	Storage Temperature	T_{stg}	°C	-40~+150	

5. Electrical characteristics

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_{F1}	V	0.58 max.	$I_F=2.8A$
		V_{F2}	V	0.62 max.	$I_F=3.5A$
2	Reverse Leakage Current	I_R	mA	3.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_{R1}$	mA	35 max.	$V_R=V_{RM}$, $T_j=125°C$
		$H \cdot I_{R2}$	mA	125 max.	$V_R=V_{RM}$, $T_j=150°C$
4	Thermal Resistance	$R_{th(j-l)}$	°C /W	8.0 max.	Between Junction and Lead

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6. Characteristics

$I_{F(AV)}$ - P_F

V_R - P_R

7. Derating

Tl - $I_{F(AV)}$　　　　　　　　　V_R=0(V)

Tl (°C)
Lead Temperature (°C)

Tl - $I_{F(AV)}$　　　　　　　　　V_R=60(V)

Tl (°C)
Lead Temperature (°C)

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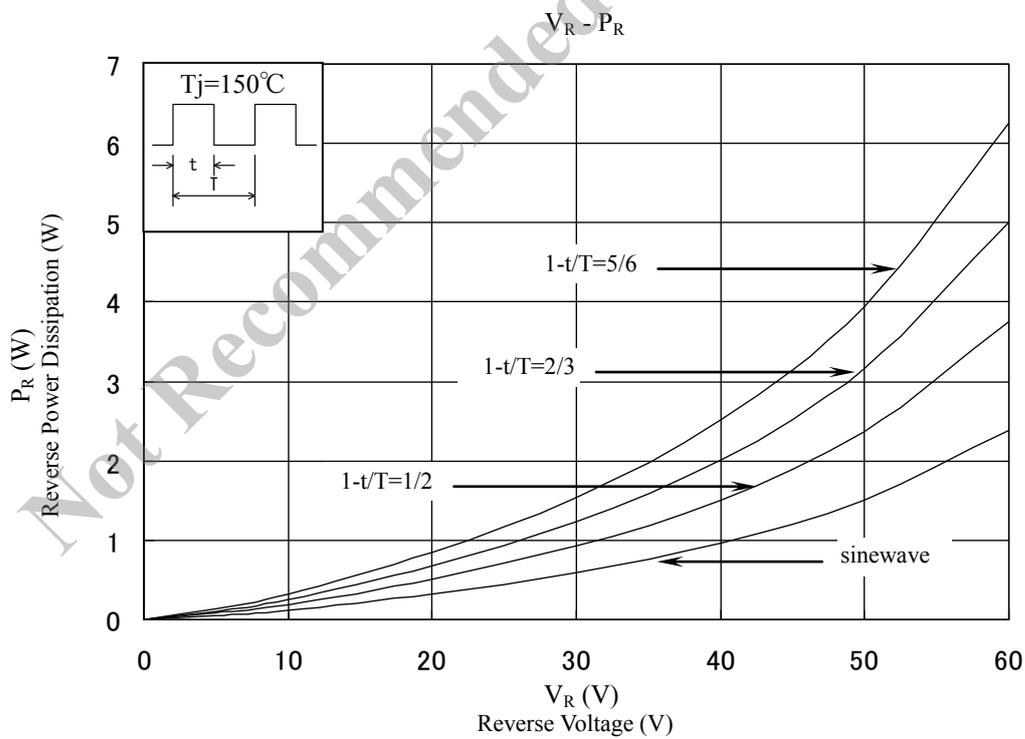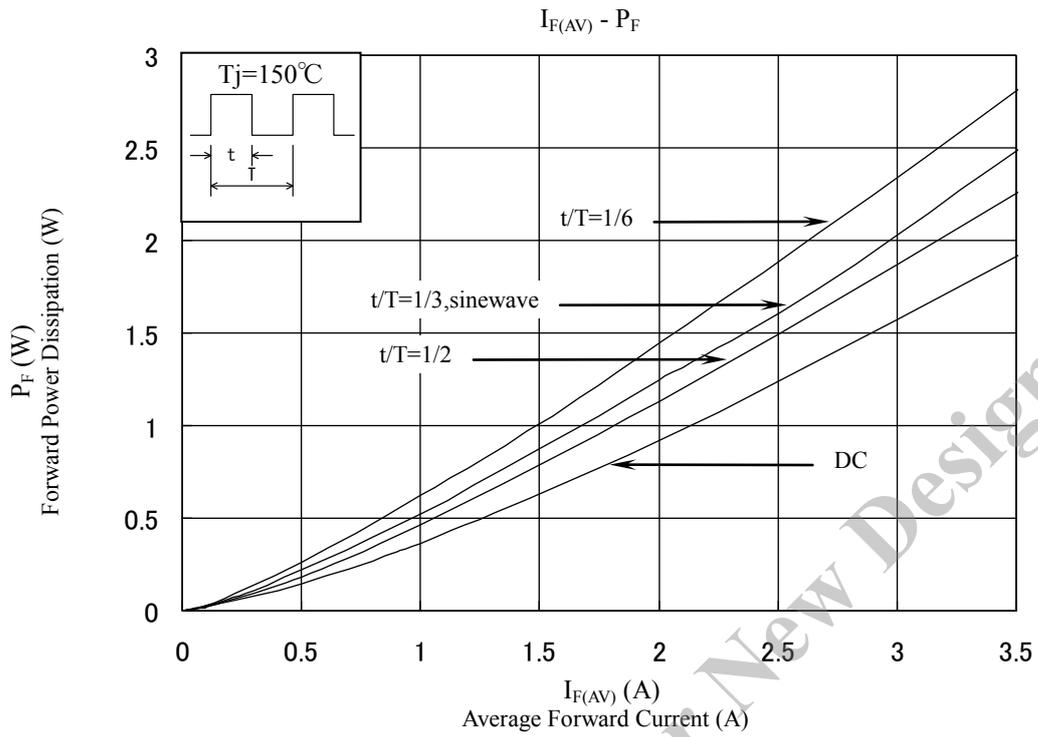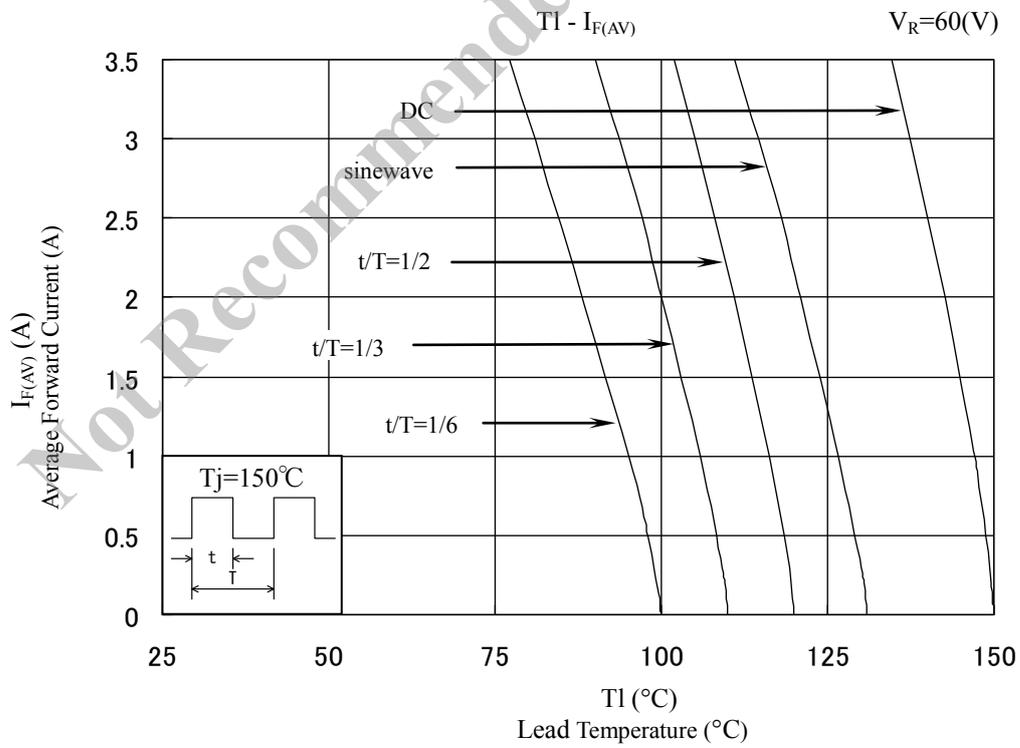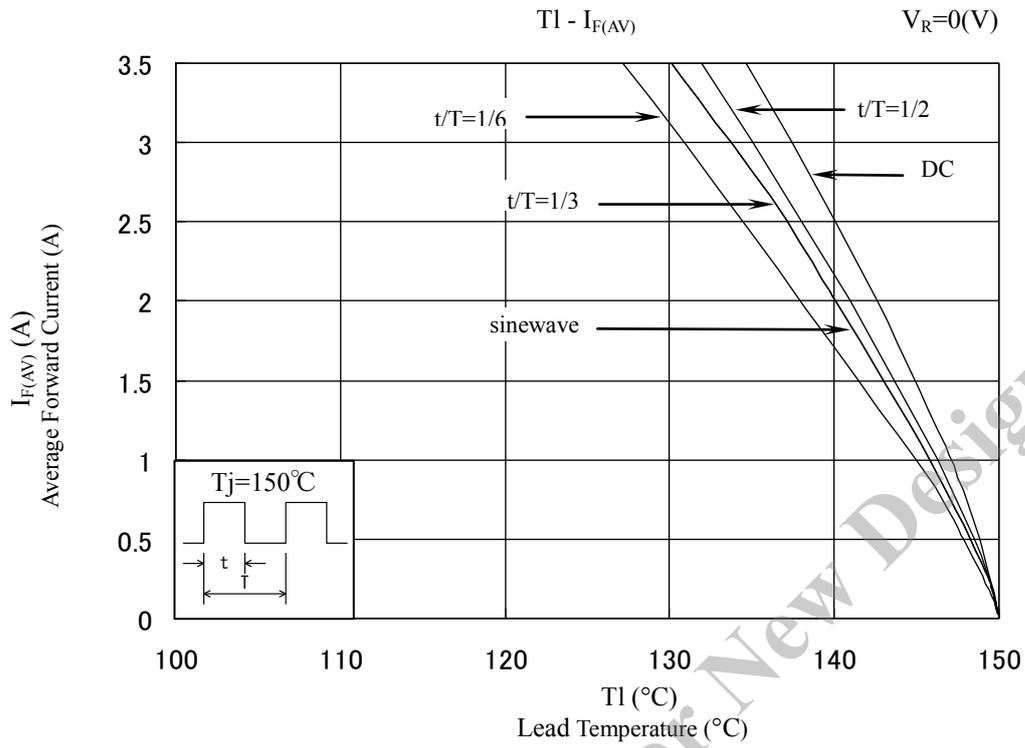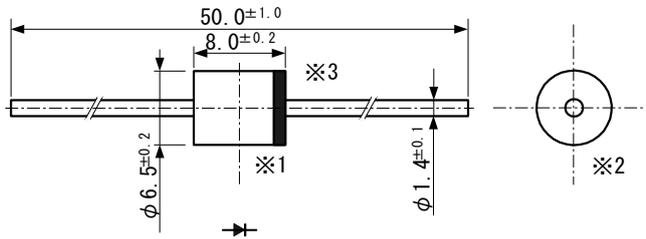
8. Package information

   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 0.3mm(max.)
   *3   The burr may exit up to 2mm from the body of lead

                                                                                                 Dimensions in ㎜

   8-2 Appearance

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

   8-3 Marking

                                               ①   Type number   RK46

                                               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.

   Cathode Band

                                               ③   Lot number 2 (ten days)
                                                    ・ :   Top of the month
                                                    ・・ :   Middle of month
                                                    ・・・ : End of month

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