1. Scope

The present specifications shall apply to an RK44.

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	45	
2	Peak Reverse Voltage	V_{RM}	V	40	
3	Average Forward Current	$I_{F(AV)}$	A	3.0	Refer to Derating of 7
4	Peak Surge Forward Current	I_{FSM}	A	80	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	32	1msec≤t≤10msec
6	Junction Temperature	T_j	°C	-40～+150	
7	Storage Temperature	T_{stg}	°C	-40～+150	

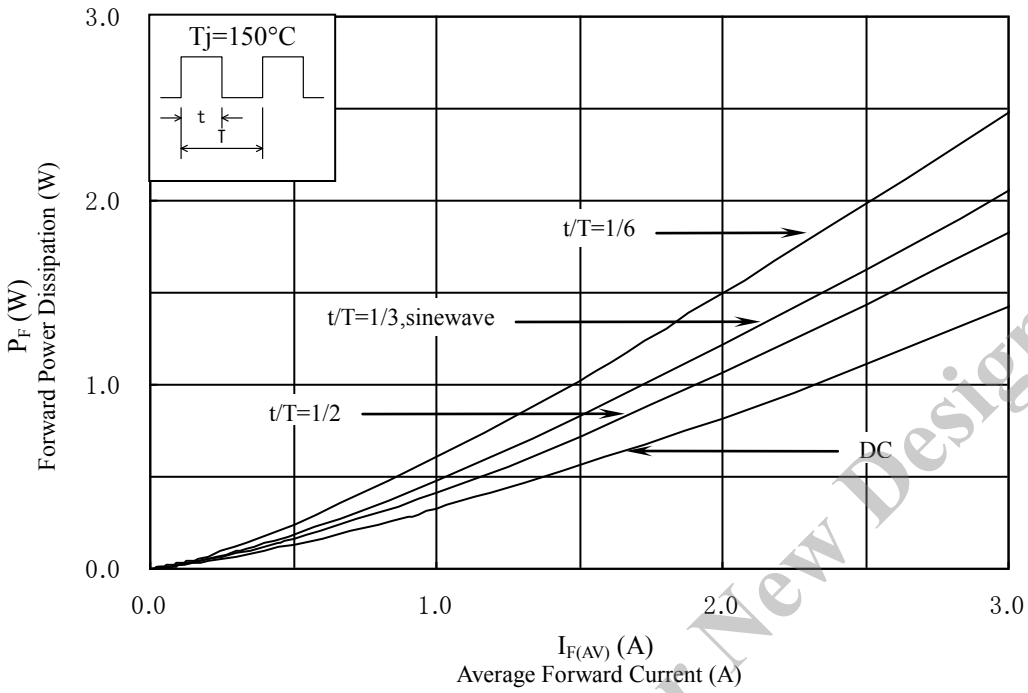
5. Electrical characteristics (Ta=25℃ , unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.55 max.	I_F=3.0A
2	Reverse Leakage Current	I_R	mA	5.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	100 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

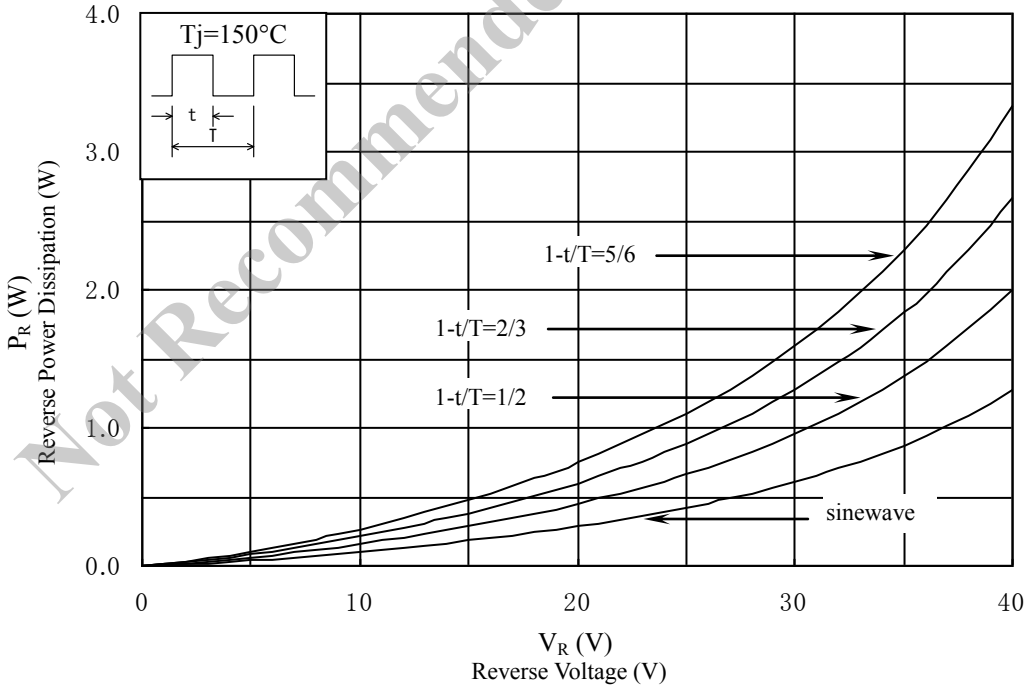
Not Recommended for New Designs

6. Characteristics

$I_{F(AV)}$ - P_F

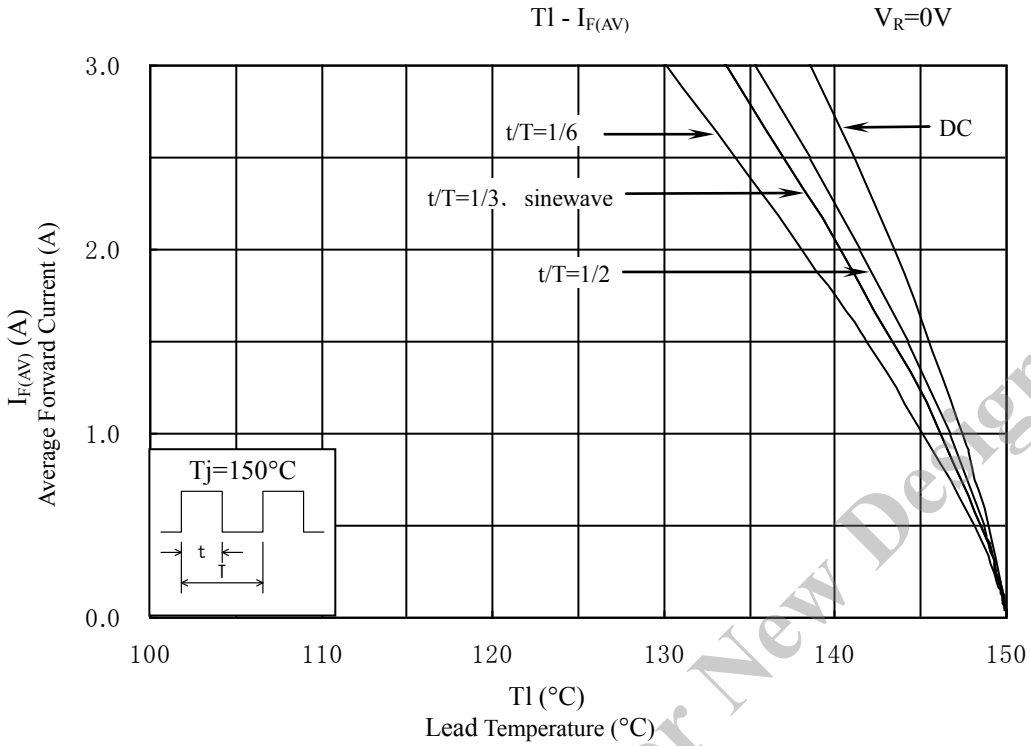


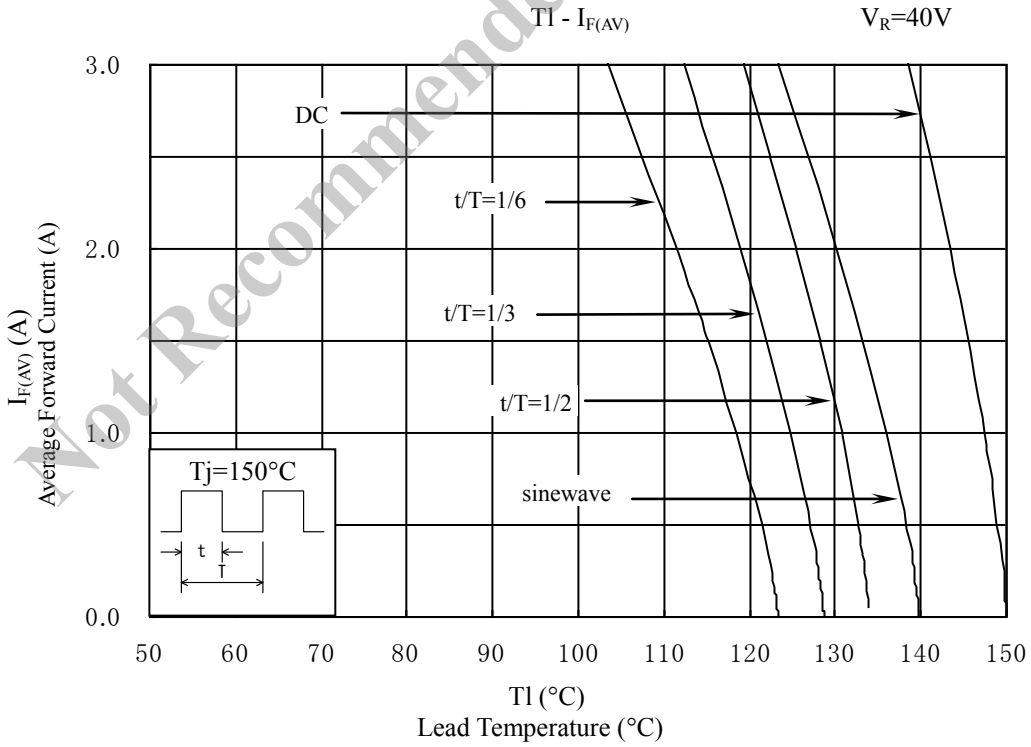
V_R - P_R



Not Recommended for New Designs

7. Derating

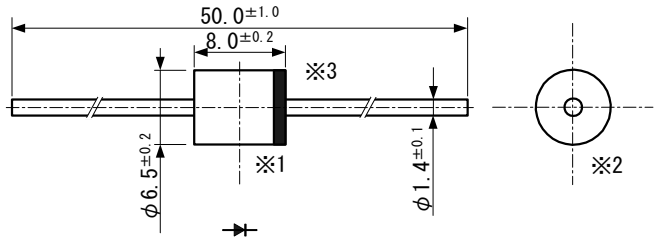




Not Recommended for New Designs

8. Package information

8-1 Package type, physical dimensions and material



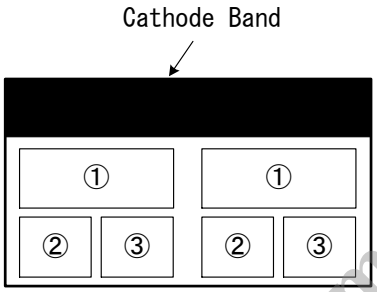
*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
*2 The centric allowance of lead wire against center of physical body is 0.3mm(max.)
*3 The burr may exit up to 2mm from the body of lead

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 RK44

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

Not Recommended for New Designs