

■General Description

RW54 is an SBD for the high power current of 5A guarantee. Low forward voltage drop and excellent switching characteristics have been achieved.

■Applications

- DC-DC converters
- AC adapter
- High frequency rectification circuit, others

■Features

- 5A guarantee though it is axial type.
- Super-high speed & low noise switching.
- Low forward voltage drop.

■Package

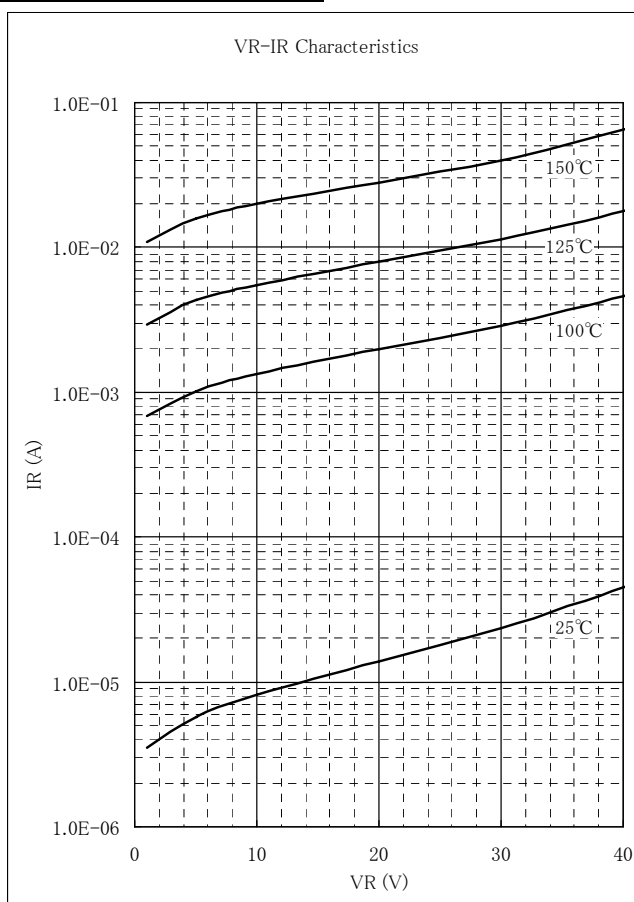
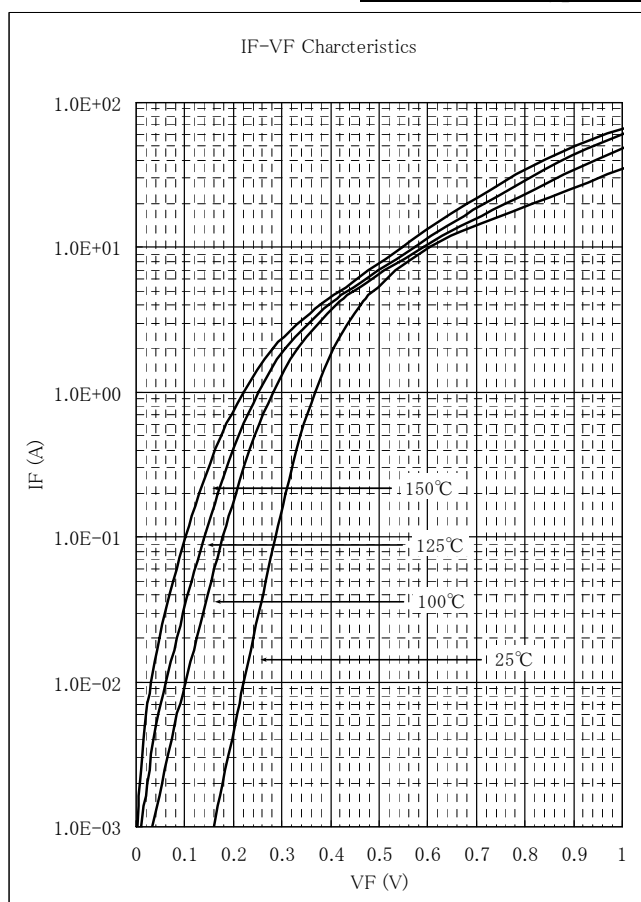
Φ6.5(axial)



■Key Specifications

Symbol	Unit	Rating	Conditions
V_{RM}	V	40	
V_F	V	0.55	$I_F=5.0A$
$I_{F(AV)}$	A	5.0	

Typical Characteristics



★ Absolute maximum ratings

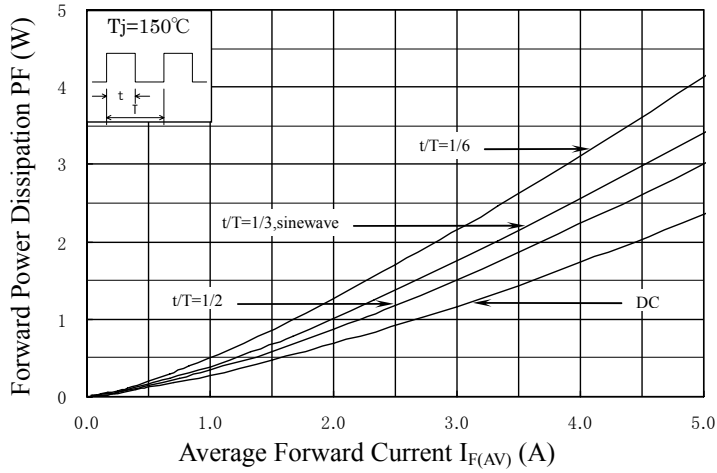
No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	40	
2	Peak Reverse Voltage	V_{RM}	V	40	
3	Average Forward Current	$I_{F(AV)}$	A	5.0	
4	Peak Surge Forward Current	I_{FSM}	A	120	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	72	$1msec \leq t \leq 10msec$
6	Junction Temperature	T_j	$^{\circ}C$	-40 to +150	
7	Storage Temperature	T_{stg}	$^{\circ}C$	-40 to +150	

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

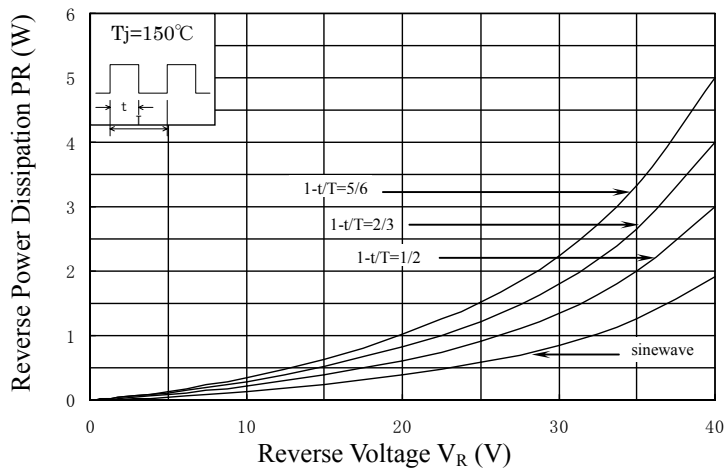
No.	Parameter	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.55 max.	$I_F=5.0A$
2	Reverse Leakage Current	I_R	mA	1.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	mA	150 max.	$V_R=V_{RM}, T_j=150^{\circ}C$
4	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}C/W$	8.0 max.	Between Junction and lead

★ Characteristics

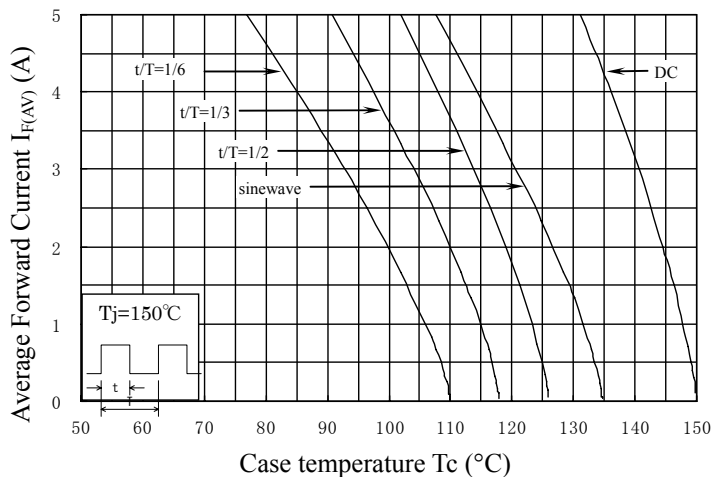
Forward Power Dissipation



Reverse Power Dissipation



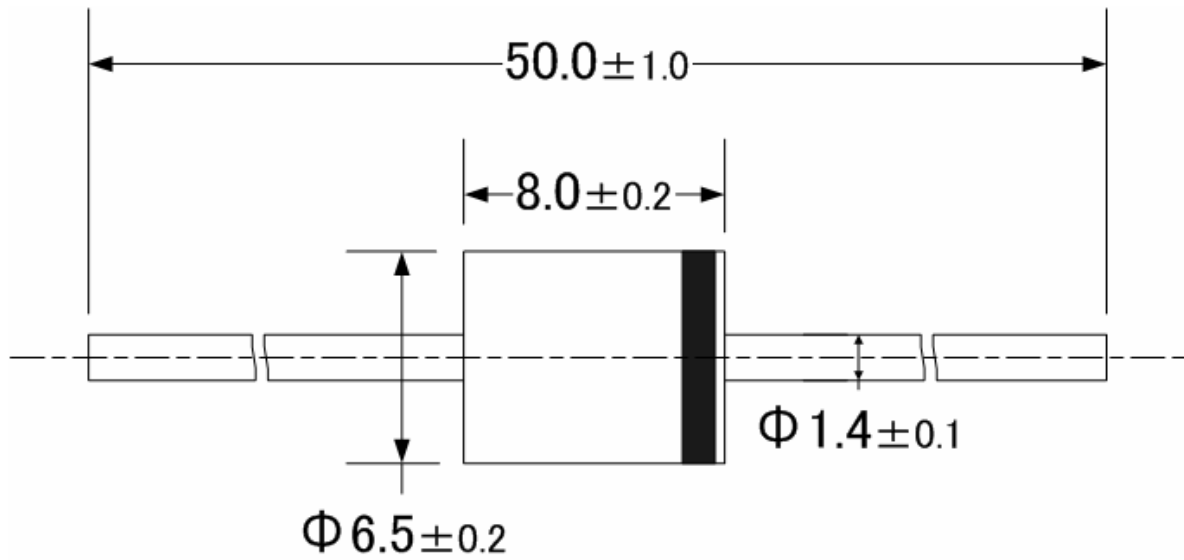
Current Derating



RW54

July 2006

★ Outline drawings, mm



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