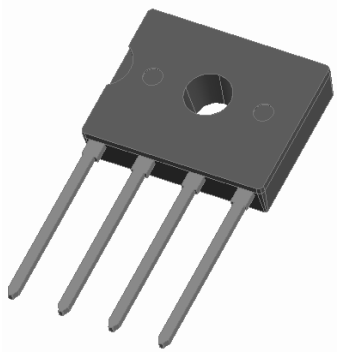
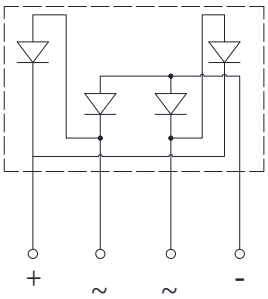
RoHS
COMPLIANT





- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

- : D3K
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ (T_a=25 Unless otherwise specified

Device marking code				RD8UB80	RD8UB100
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	800	1000
Maximum RMS Voltage		V_{RMS}	V	560	700
Maximum DC blocking Voltage		V_{DC}	V	800	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink T_C =120	I_O	A	8.0	
	Without heatsink T_a =25			1.5	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I_{FSM}	A	160	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				320	
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I^2t	A^2s	106.2	
Storage temperature		T_{stg}		-55 ~ +150	
Junction temperature		T_j		-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2	
Mounting torque @Recommend torque 5kg cm		Tor	kg cm	8	

■ T_a=25 Unless otherwise specified

Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	500	
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=4.0A	1.3	
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25	5	
			T_j =125	100	
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	47	

■ T_a=25 Unless otherwise specified

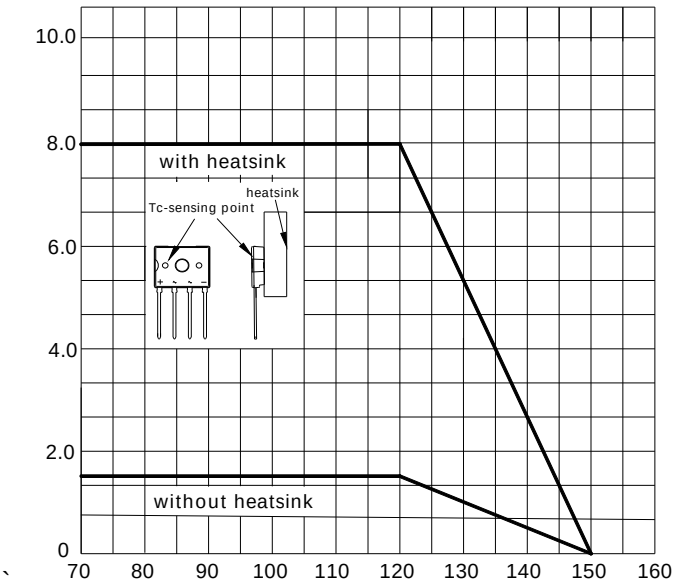
Thermal resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	55.0	
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.5	

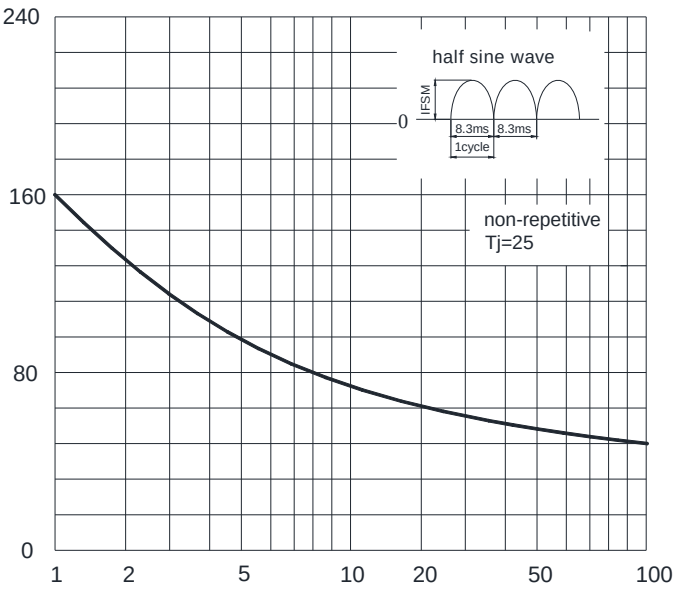
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

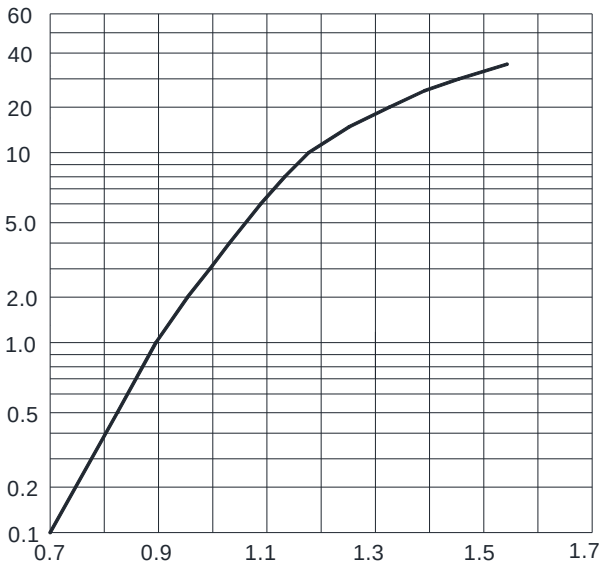
■ (Example)

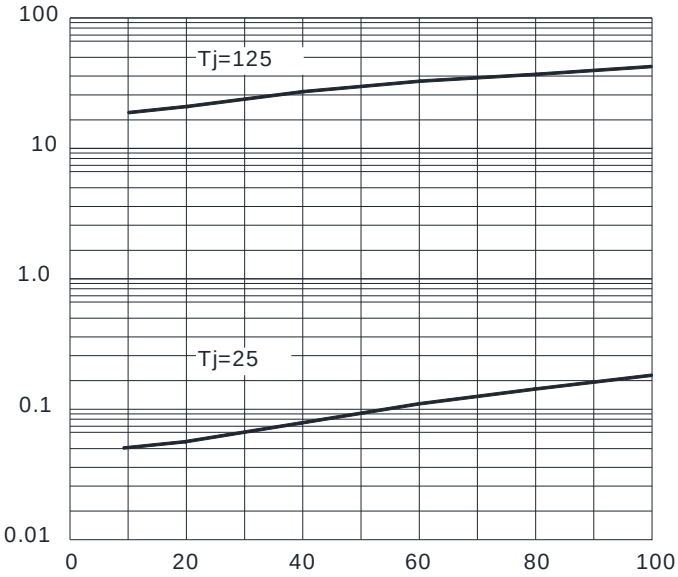
RD8UB80-RD8UB100	B1	Approximate 1.269	25	1500	6000	TUBE

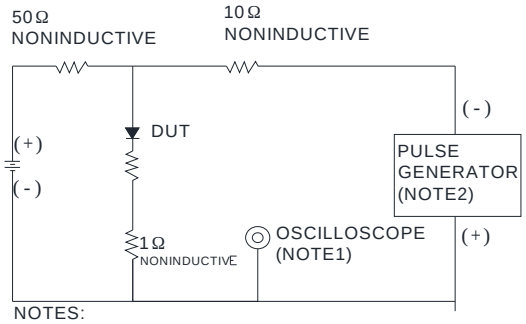
■ (Typical)



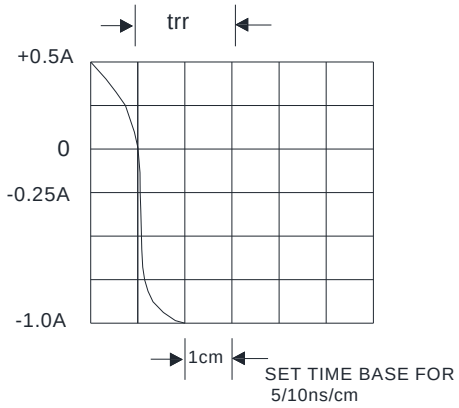






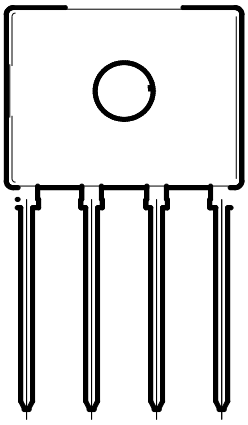


NOTES:
1.Rise Time=7ns max .Inpot Impedance=1MΩ 22pf
2.Rise Time=10ns max.Sourse Impedance=50Ω



■

D3K



Dimensions in millimeters

Dim	Min	Max
A	13.30	14.30
B	10.30	11.30
C	6.40	7.40
D	4.50	5.50
E	1.05	1.45
F	0.60	0.85
G	3.70	3.90
H	13.10	13.50
I	2.60	3.60
J	3.10	3.40
K	2.00	2.20
L	0.40	0.60
M	0.90	1.50

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