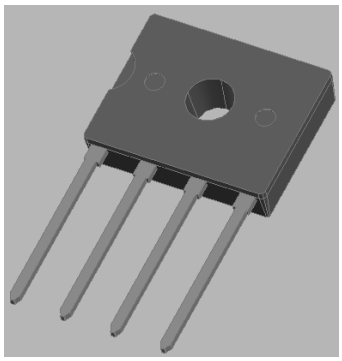
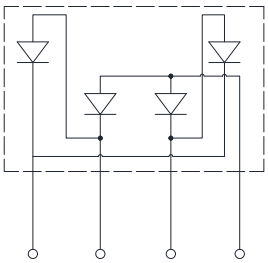
Fast Recovery Bridge Rectifiers





Features

- 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

Typical Applications

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.

Mechanical Data

M ⊤f wrating, RoHS-compl

- **Terminals**: Tin plated leads, solderable per
- **Polarity:** As marked on body

■**Maximum Ratings** (T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	RD6UB80	RD6UB100
Device marking code				RD6UB80	RD6UB100
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 =130℃	I_O	A	6.0	
	Without heatsink T_a =25℃			1.5	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃		I_{FSM}	A	150	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃				300	
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode		I^2t	A^2s	93.4	
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	

■Electrical Characteristics T_a=25℃ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RD6UB80	RD6UB100
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	VF	V	IFM=3.0A	1.3	
Maximum DC reverse current at rated DC blocking voltage per diode	IR	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	

■Thermal Characteristics T_a=25℃ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	RD6UB80	RD6UB100
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.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RD6UB80-RD6UB100	B1	Approximate 1.269	25	1500	6000	TUBE

■ Characteristics (Typical)

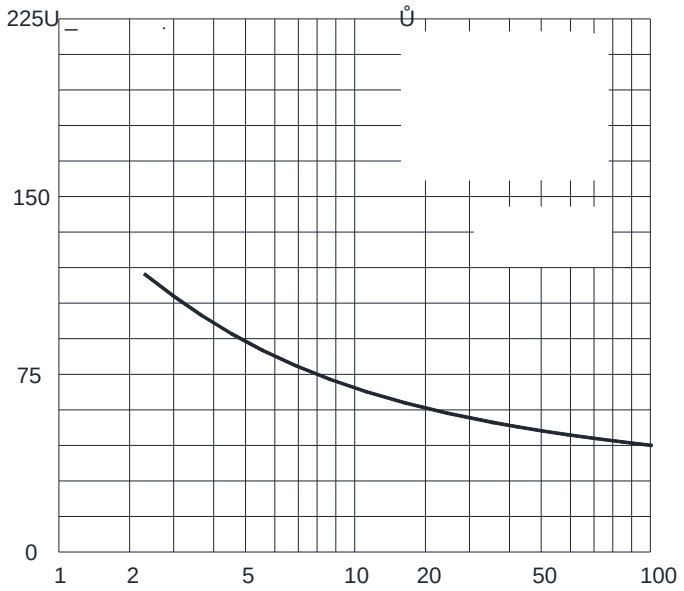


FIG3: Typical Forward Voltage

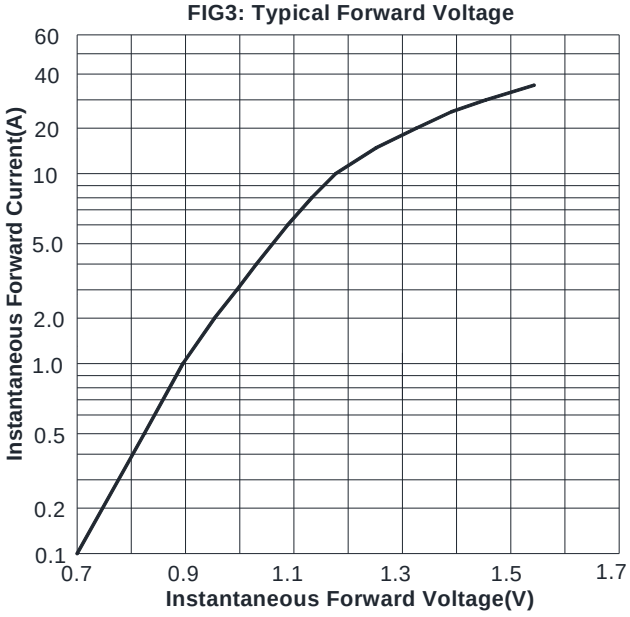


FIG4:Typical Reverse Characteristics

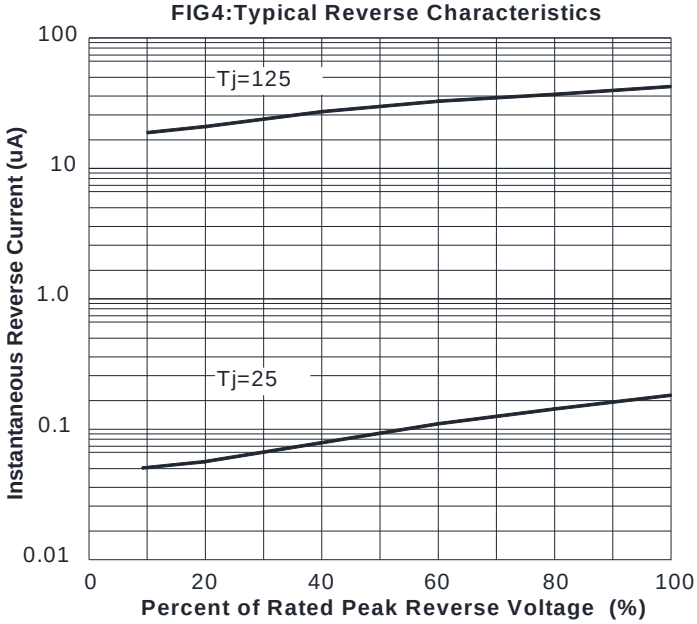
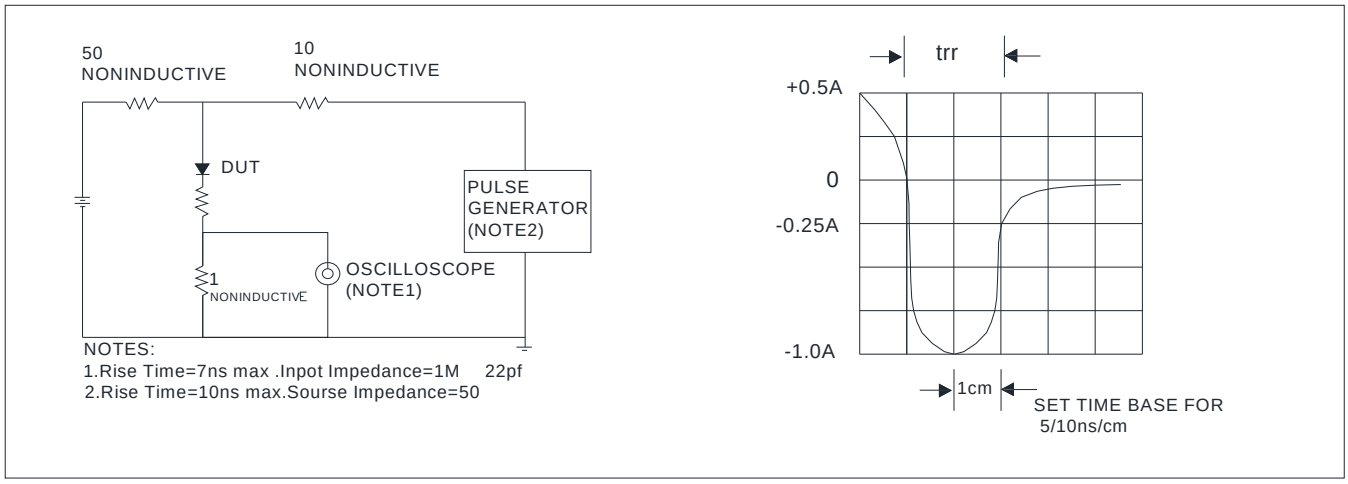
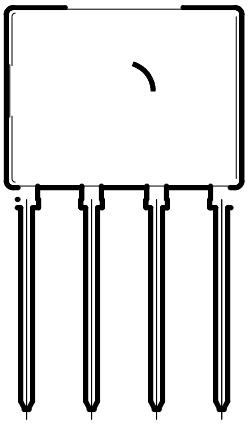


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ **Outline Dimensions**

D3K



D3K		
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

Dimensions in millimeters

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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