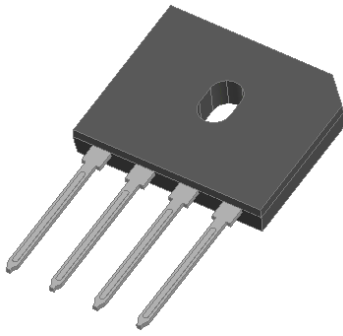
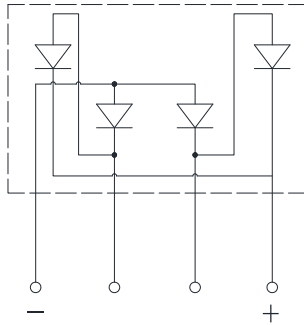


## Fast Recovery Bridge Rectifier



### Features

UL recognition, file #E230084



” **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** As marked on body

### Maximum Ratings ( $T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	RGBU610	
Device marking code			RGBU610	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	1000	
Maximum RMS Voltage	VRMS	V	700	
Maximum DC blocking Voltage	VDC	V	1000	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =118	IO	A	6.0
	Without heatsink Ta =25			2.8
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	IFSM	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 <sup>2</sup> t	A <sup>2</sup> S	93.4	
Storage temperature	Tstg		-55 ~ +150	
Junction temperature	Tj		-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5	
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8	

### Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RGBU610
Maximum reverse recovery time	t <sub>r</sub>	ns	I <sub>f</sub> =0.5A, I <sub>r</sub> =1.0A, I <sub>r</sub> =0.25A	500
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	IFM=3.0A	1.3
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	μA	T <sub>j</sub> =25	5
			T <sub>j</sub> =125	100
Typical junction capacitance	C <sub>j</sub>	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	38

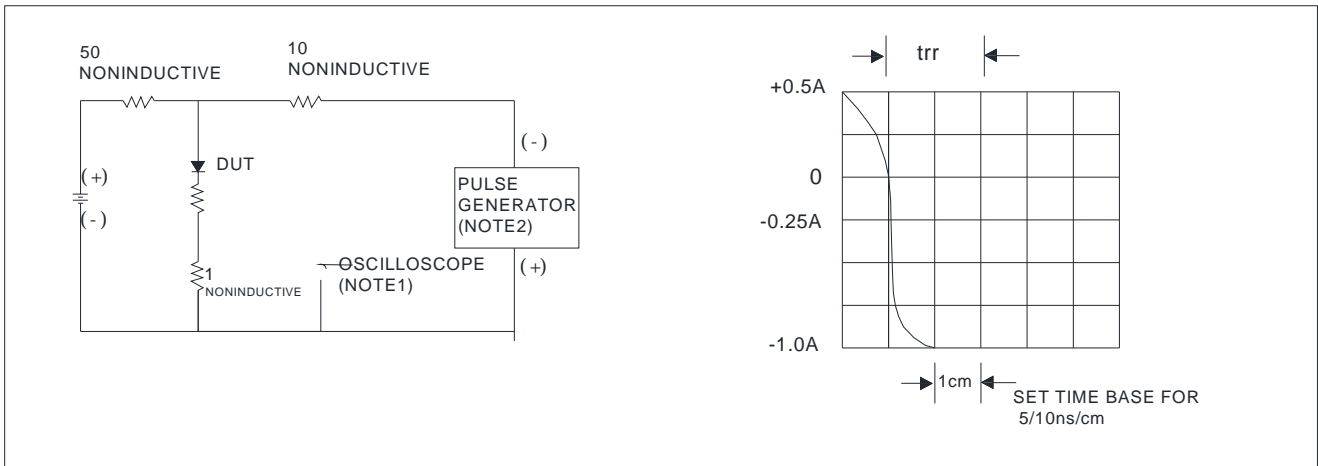


# RGBU610

**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER		UNIT	RGBU610
-----------	--	------	---------

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



## Outline Dimensions

GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56

