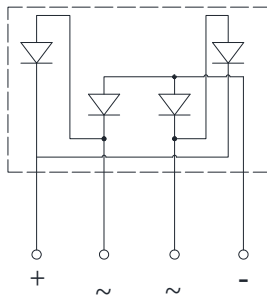
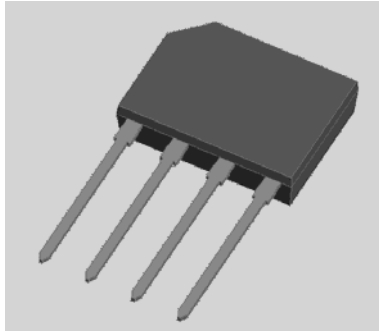


Fast Recovery Bridge Rectifiers



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

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

■Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	RGBP41
Average rectified output current @ 60Hz sine wave, R-load = 10	IO	A	4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	IFSM	A	110
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			220
Current squared time @1ms ≤ t ≤ 8.3ms Tj=25, Rating of per diode	I²t	A²s	50
Dielectric strength @ terminals to case, AC 1 minute	Vdis	KV	2
Storage temperature	Tstg		-55 ~ +150
Junction temperature	Tj		-55 ~ +150



RGBP410

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RGBP410
Maximum reverse recovery time	t_r	ns	$I_F=0.5A, I_R=1.0A,$ $I_{rr}=0.25A$	500
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=2.0A$	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	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	30

■Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	RGBP410
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	/W	45
	Between junction and Case	$R_{\theta J-C}$		5

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	> Ĉ
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RGBP410

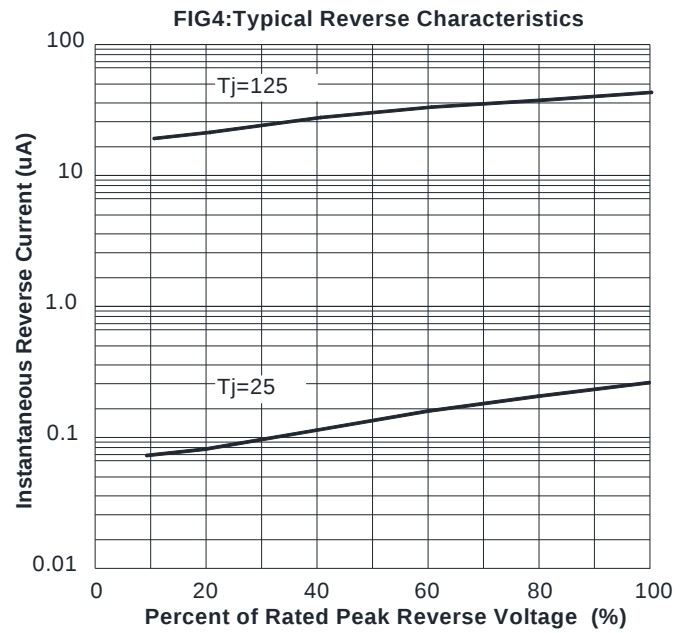
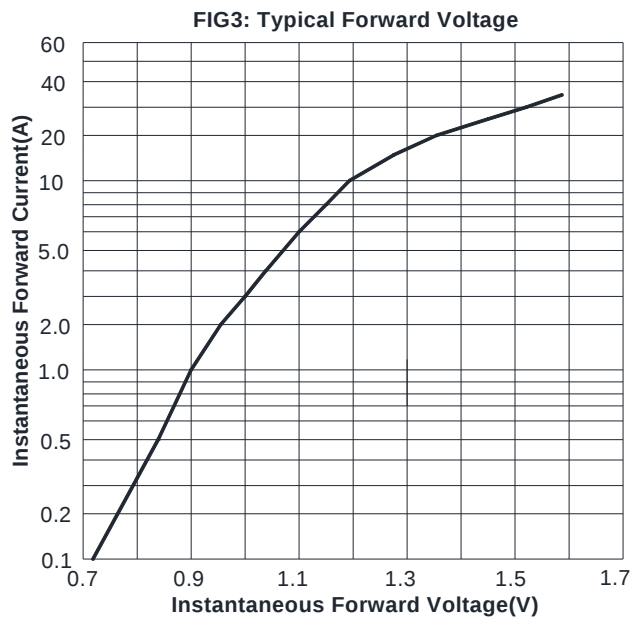
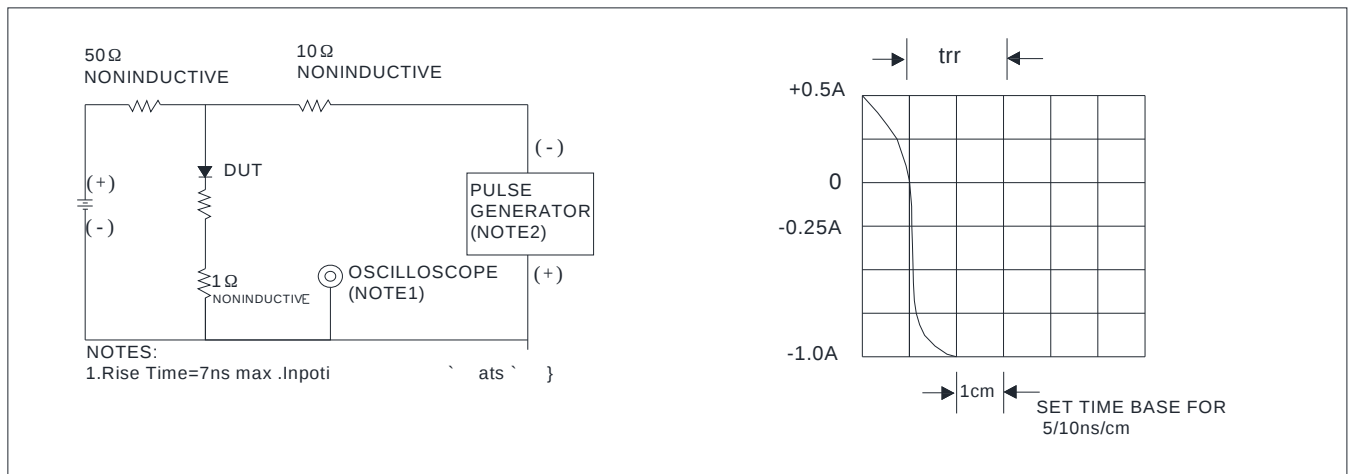


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





RGBP410

Disclaimer