RABS21 THRU RABS210

Voltage Range - 100 to 1000 Volts Current - 2.0 Ampere

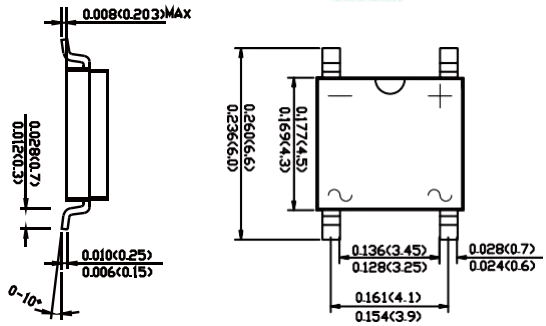
GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

Features

ABS

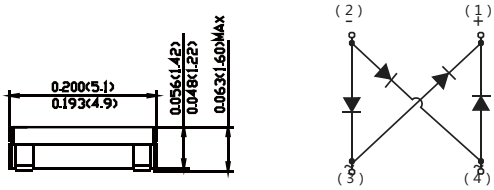
RoHS COMPLIANT

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current- 2.0 A
- Fast reverse recovery time
- Designed for Surface Mount Application



Mechanical Data

Case : JEDEC ABS molded plastic body
Terminals : Solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body Mounting Position : Any
Weight : 0.0031 ounce, 0.088 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25 ℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter / Marking Code	Symbols	RCD RABS21	RCD RABS22	RCD RABS24	RCD RABS26	RCD RABS28	RCD RABS210	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at T_c = 115 °C	I_O	2.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50						A
Maximum Forward Voltage at 2.0 A	V_F	1.3						V
Maximum DC Reverse Current @T_a=25 °C@ at Rated DC Blocking Voltage T_a=125 °C	I_R	5.0 200						μ
Typical Junction Capacitance (Note 1)	C_j	40						ApF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	50						°C/W
Maximum Reverse Recovery Time (Note3)	t_{rr}	350						ns °
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with4×1.5"×1.5" (3.81×3.81 cm) copper pad areas.
3. Measured with I = 0.5 A, I = 1 A, Irr = 0.25 A .

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Fig.1 Average Rectified Output Current Derating Curve

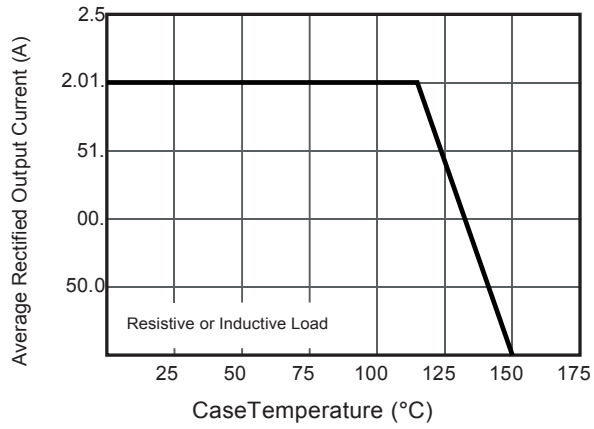


Fig.2 Typical Reverse Characteristics

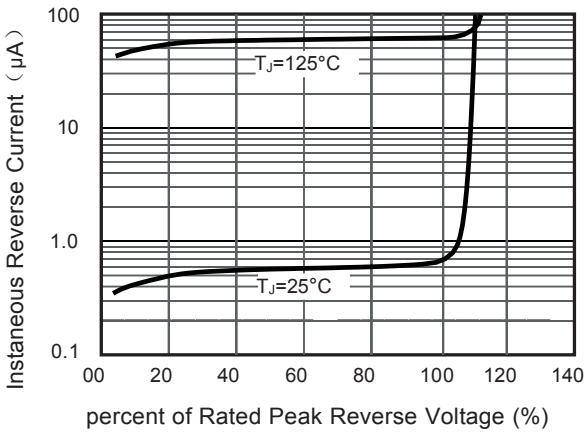


Fig.3 Typical Instaneous Forward Characteristics

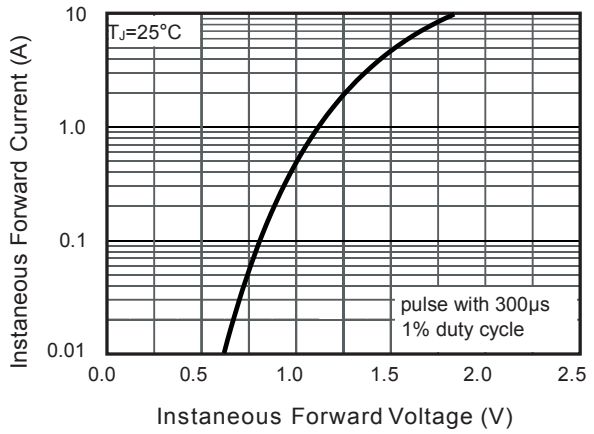


Fig.4 Typical Junction Capacitance

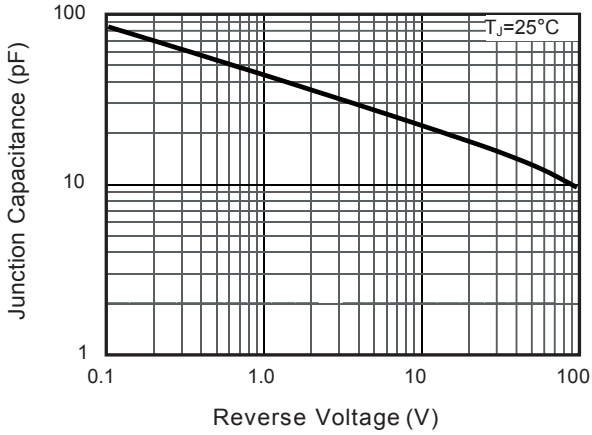
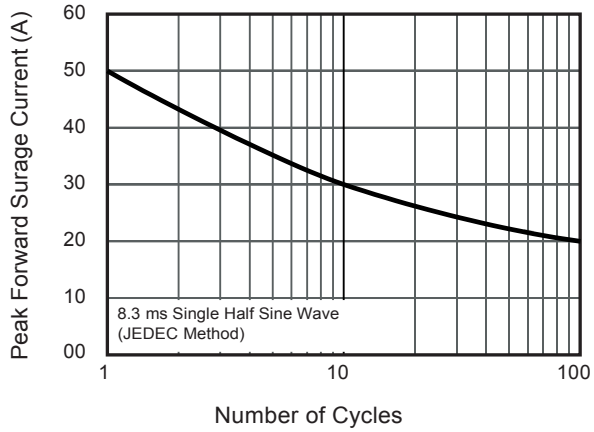
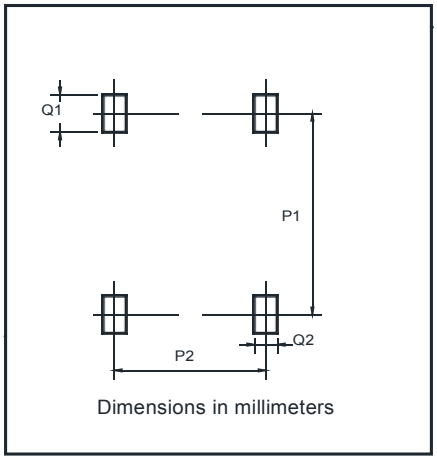


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current





Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90