

Surface Mount Glass Passivated Fast Recovery Bridge Rectifier

Voltage

1000 V

Current

4A

Features

• Fast reverse recovery time

- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- UL recognition file number E111753
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case: M4 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

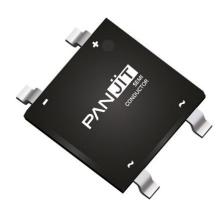
• Approx. Weight: 0.29 grams

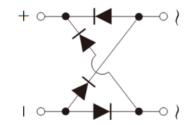
Application

- QC/PD Charger
- General Console power
- NB Adapter
- Monitor Power
- Smart Speaker Power
- Slim Adapter

Key Parameters			
Parameter	Value		
V_{RRM}	1000V		
I _F (AV)	4A		
I _{FSM}	120A		
I _R	5uA		
T _{rr}	250ns		
Package	M4		









Maximum Ratings and Thermal Characteristics ($T_A = 25$ $^{\circ}$ C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V	
Maximum RMS Voltage		V _{RMS}	700	V	
Maximum DC Blocking Voltage		V _{DC}	1000	V	
Maximum Average Forward Current		I _{F(AV)}	4	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		120	Α	
	@ T _A = 125 °C	I _{FSM}	96		
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C	_	240	А	
	@ T _A = 125 °C	I _{FSM}	192		
I^2 t rating for fusing (t = 8.3ms)		I²t	60	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V		CJ	40	pF	
Maximum Reverse Recovery Time (Note 2)		Trr	250	ns	
	ReJA	50	°C/W		
Typical Thermal Resistance (Note 1)		Rejl			35
	R ₀ JC	28			
Operating junction and storage temperature range		T _J , T _{STG}	-55~150	°C	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

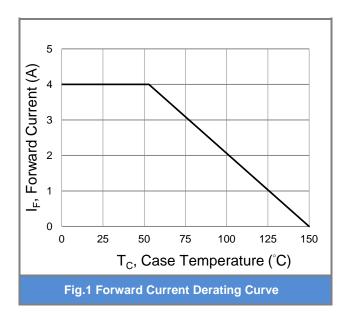
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 2 A, T _J = 25 °C	ı	ı	1.3	V	
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5		
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA	

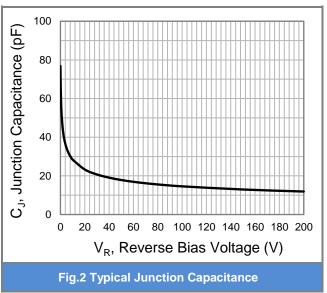
NOTES:

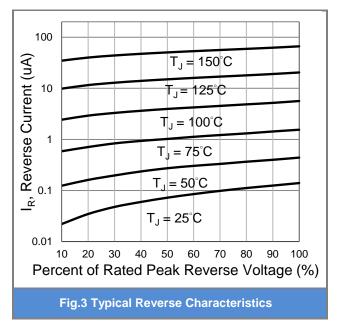
- 1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.
- 2. Measured with IF = 0.5 A, IR= 1 A, IRR = 0.25 A.

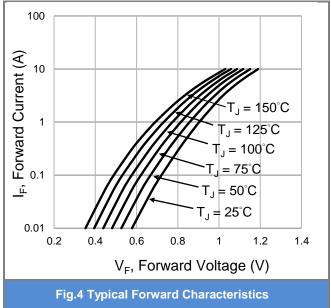


TYPICAL CHARACTERISTIC CURVES







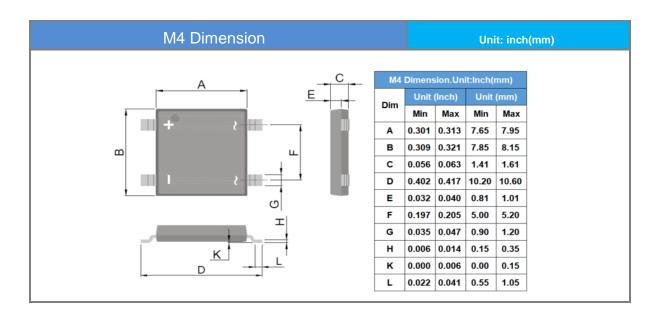


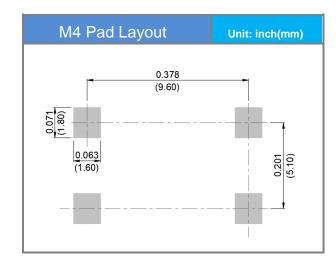


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
RPMS410	M4	3K pcs / 13" reel	RPMS410

Packaging Information & Mounting Pad Layout







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