Surface Mount Glass Passivated Bridge Rectifier

Current

4A

HF

Voltage

Features

- Glass passivated chip junction
- Ideally suited for automatic assembly

1000 V

- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- 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

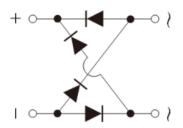
- QC/PD Charger
- General Console power
- NB Adapter
- Monitor Power
- Smart Speaker Power
- Slim Adapter

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



M4







Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		Vrrm	1000	V
Maximum RMS Voltage		VRMS	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V	
Maximum Average Forward Current		IF(AV)	4	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		120	
	@ T _A = 125 °C	IFSM	96	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		240	
	@ T _A = 125 °C	IFSM	170	A
I^2 t rating for fusing (t = 8.3ms)	I ² t	59.76	A ² S	
Typical Junction Capacitance			_	
Measured at 1 MHZ And Applied $V_R = 4$	CJ	50	pF	
	R _{0JA}	26		
Typical Thermal Resistance (Note 1)		R _{0JL}	10	°C/W
	Rejc	11		
Operating junction and storage temper	ature range	TJ, TSTG	-55~150	°C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	$I_F = 2 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	1.05	V
Reverse Current	I _R	$V_R = 1000 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	5	
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

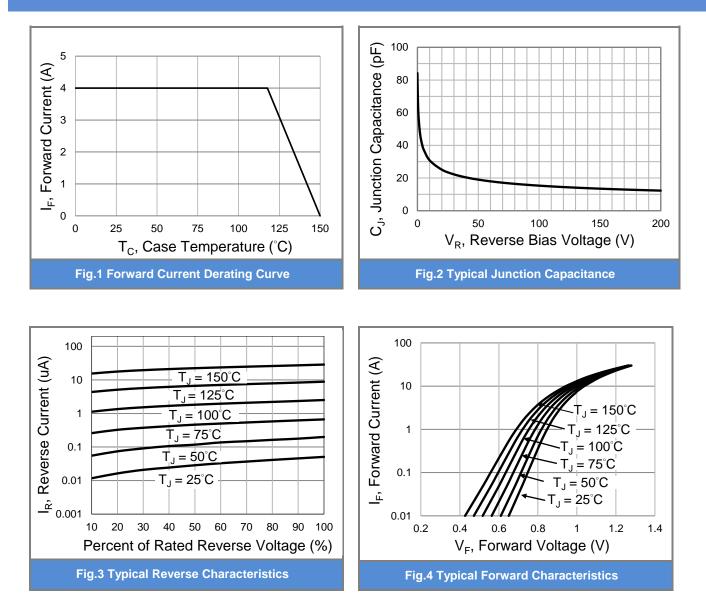
NOTES :

1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.



PMS410

TYPICAL CHARACTERISTIC CURVES

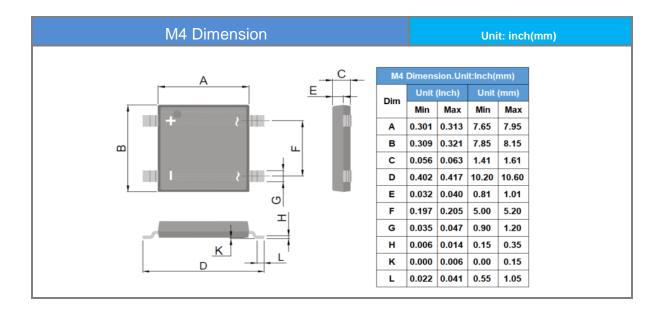


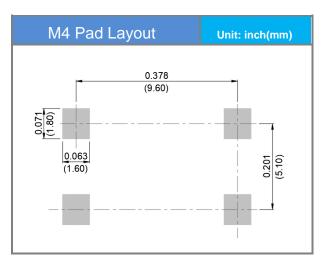


Part No. Packing Code Version

Approved Part No.	Package Type	Packing Type	Marking
PMS410	M4	3K pcs / 13" reel	PMS410

Packaging Information & Mounting Pad Layout







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