Surface Mount Glass Passivated Bridge Rectifier

Current

3A

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

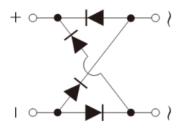
Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I⊧(AV)	3A		
IFSM	110A		
I _R	5uA		
Package	M4		



PMS310-REV.00

M4









Maximum Ratings and Thermal Characteristics (T_A = 25 °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		IF(AV)	3	А	
Peak Forward Surge Current : 8.3 ms	@ T _A = 25 °C		110		
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	80	A	
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		200		
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	150	A	
I^2 t rating for fusing (t = 8.3ms)		l²t	50.2	A ² S	
Typical Junction Capacitance			10	_	
Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	40	pF	
	Roja	30			
Typical Thermal Resistance (Note 1)		R _{θJL}	10	°C/W	
	R _{θJc}	12			
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		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⊧ = 1.5 A, TJ = 25 °C	-	-	1.05	V
Reverse Current	IR	V _R = 1000 V, T _J = 25 °C	-	-	5	•
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

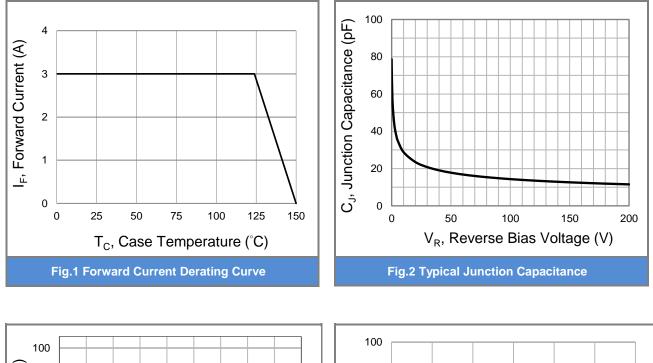
NOTES :

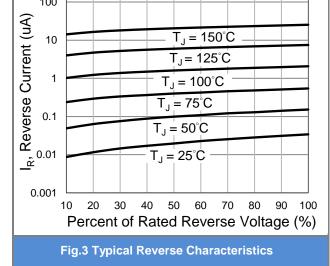
1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

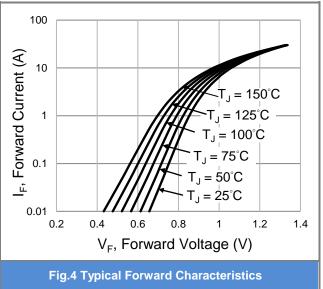


PMS310

TYPICAL CHARACTERISTIC CURVES





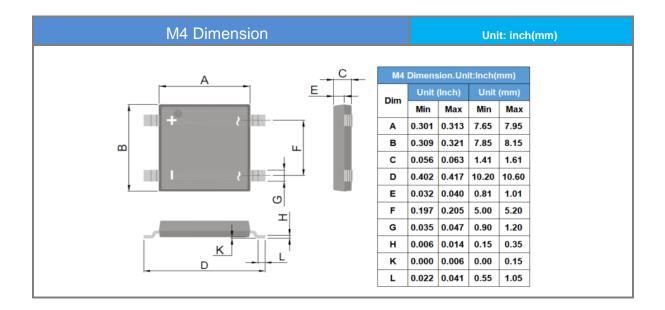


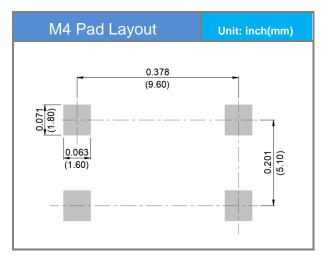


Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
PMS310	M4	3K pcs / 13" reel	PMS310

Packaging Information & Mounting Pad Layout







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