

Surface Mount Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

4A

HF

<u>M6</u>

Features

• Glass passivated chip junction

- Ideally suited for automatic assembly
- 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

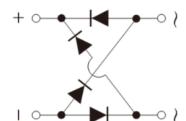


Mechanical Data

• Case: M6 Package

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

• Approx. Weight: 0.38 grams



Application

- PD Charger
- Consumer Power Adapter
- NB Adapter
- TV Power

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I _F (AV)	4A		
I _{FSM}	120A		
I _R	5uA		
Package	M6		



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		V _{RMS}	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Current		I _{F(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	192	A
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	37	pF
	R _θ ЈА	55		
Typical Thermal Resistance (Note 1)	Rejl	10	°C/W	
	Rejc	5		
Operating junction and storage temp	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 A, T _J = 25 °C	ı	0.90	1.0	V
		I _F = 2 A, T _J = 125 °C	-	0.80	-	
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	uA
		V _R = 1000 V,T _J = 125 °C	-	-	100	

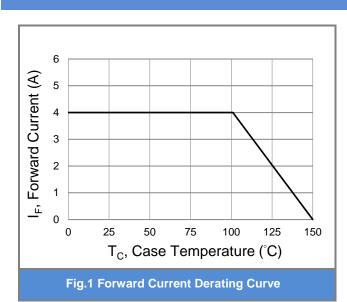
NOTES:

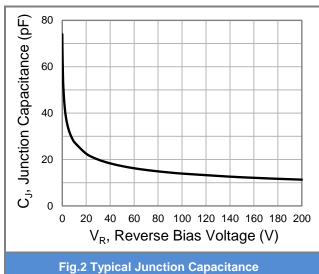
1. Mounted on a FR4,35mmx25mmx1.7mm ,2oz copper pad area.

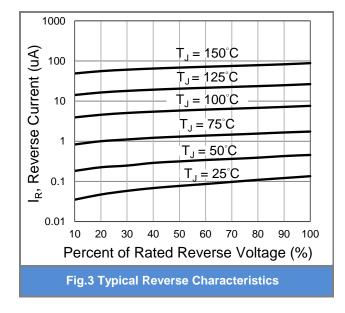
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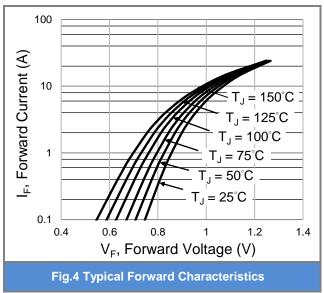


TYPICAL CHARACTERISTIC CURVES







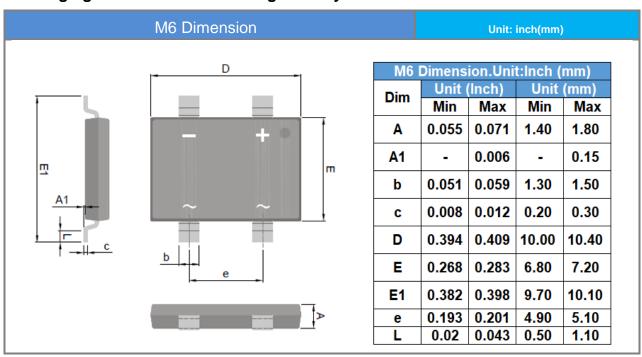


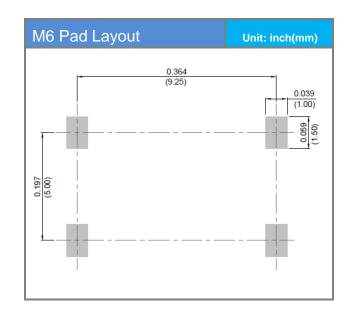


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PMSM410	M6	1.8K pcs / 13" reel	PMSM410

Packaging Information & Mounting Pad Layout







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