

Current

SEMI CONDUCTOR

• Fast reverse recovery time

1000 V

Ideally suited for automatic assemblySave space on printed circuit boards

• UL recognition file number E111753

Lead free in compliance with EU RoHS 2.0
Halogen-free according to IEC 61249 standard

Features

 $P\Lambda N$



M4

RPMS310



Mechanical Data

- Case : M4 Package
- Terminals : Solderable per MIL-STD-750, Method 2026

• Ultra thin profile package for space constrained utilization

• 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)	3A		
I _{FSM}	110A		
I _R	5uA		
T _{rr}	250ns		
Package	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		VDC	1000	V
Maximum Average Forward Current		IF(AV)	3	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		110	
	@ T _A = 125 °C	IFSM	88	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		220	
	@ T _A = 125 °C	IFSM	160	A
I^2 t rating for fusing (t = 8.3ms)		l ² t	50	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	35	pF
Maximum Reverse Recovery Time (Note 2)		Trr	250	ns
	Reja	50		
Typical Thermal Resistance (Note 1)		Rejl	35	°C/W
	Rejc	28		
Operating junction and storage temperature 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⊧ = 1.5 A, TJ = 25 °C	-	-	1.3	V	
Reverse Current	I _R	$V_R = 1000 V, T_J = 25 \circ C$	-	-	5	uA	
		V _R = 1000 V,T _J = 125 °C	-	-	100		

NOTES :

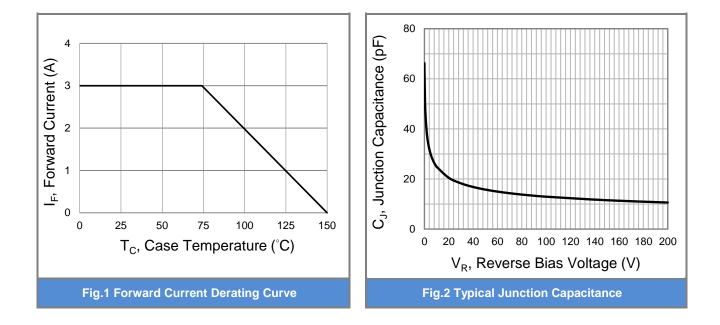
1. Mounted on a FR4,100x100x1.6mm ,2oz copper pad area.

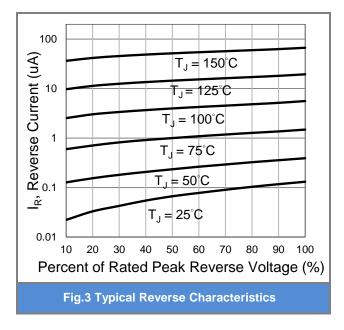
2. Measured with IF = 0.5 A, IR= 1 A, IRR = 0.25 A.

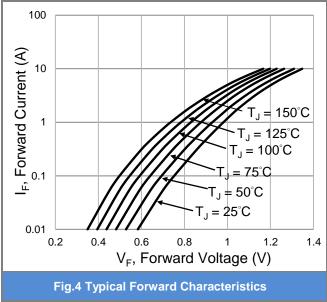


RPMS310

TYPICAL CHARACTERISTIC CURVES





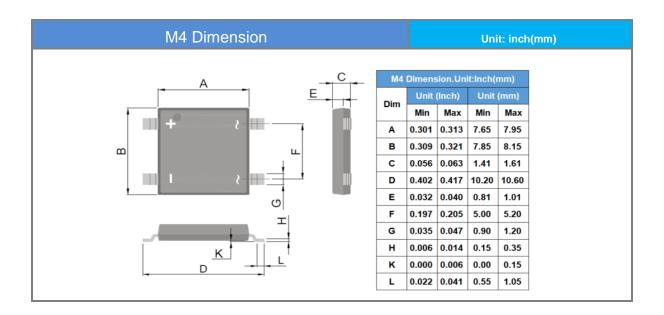


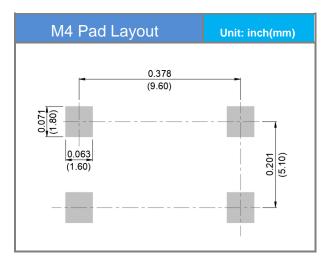


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
RPMS310	M4	3K pcs / 13" reel	RPMS310

Packaging Information & Mounting Pad Layout







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