



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

200 V

Current

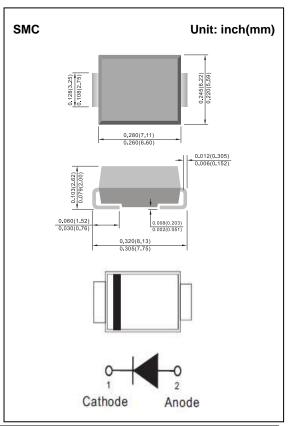
4 A

Features

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SMC Molded Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0082 ounces, 0.233 grams



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

PARAMETER		SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	200	V	
Maximum rms voltage		VRMS	140	V	
Maximum dc blocking voltage		VR	200	V	
Maximum average forward rectified current		I F(AV)	4	Α	
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		İfsm	100	А	
Typical junction capacitance (VR =4V, f=1MHz)		Сл	80	pF	
	(Note 2)	ReJL	15		
Typical thermal resistance	(Note 2)	Rejc	23	°C/W	
	(Note 1)	RθJA	110		
Maximum reverse recovery time		TRR	35	ns	
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

Note:1.Mounted on a FR4 PCB, single-sided copper, mini pad.

2.Mounted on 10cm*10cm*0.5mm copper pad area.





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

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	T _J =25°C	200	1	1	V
Instantaneous forward voltage	V _F	I _F =1A	TJ=25°C	-	0.71	-	
		I _F =2A		-	0.76	-	V
		I _F =4A		-	-	0.86	
		I _F =1A	TJ=125°C	-	0.55	-	V
		I _F =2A		-	0.61	-	
Reverse current	V _R =160V V _R =200V	V _R =160V	TJ=25°C	-	30	-	nA
		1/ 0001/	TJ=25°C	-	-	5	μΑ
		TJ=125°C	-	-	5	mA	





TYPICAL CHARACTERISTIC CURVES

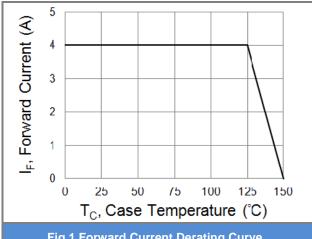


Fig.1 Forward Current Derating Curve

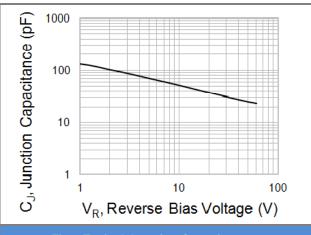


Fig.2 Typical Junction Capacitance

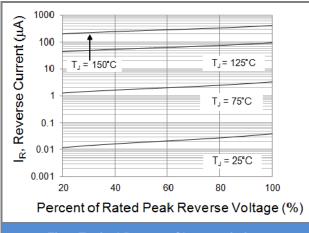


Fig.3 Typical Reverse Characteristics

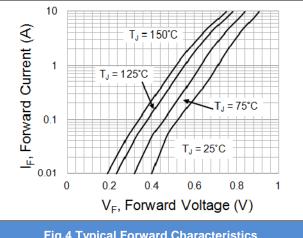


Fig.4 Typical Forward Characteristics

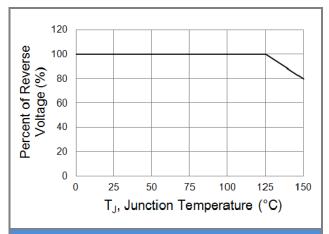


Fig.5 Operating Temperature Derating Curve

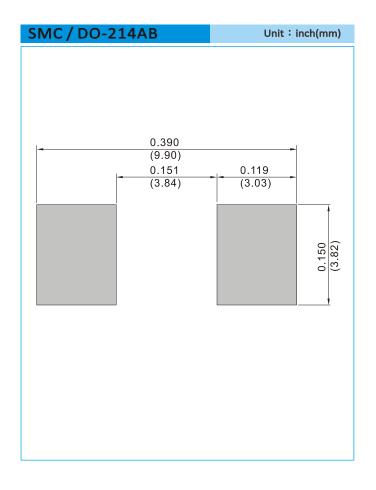




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MB420G_R1_000A1	SMC	0.8K pcs / 7" reel	MB420G	Halogen free
MB420G_R2_000A1	SMC	3K pcs / 13" reel	MB420G	Halogen free

Mounting Pad Layout







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