



MB420G

ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

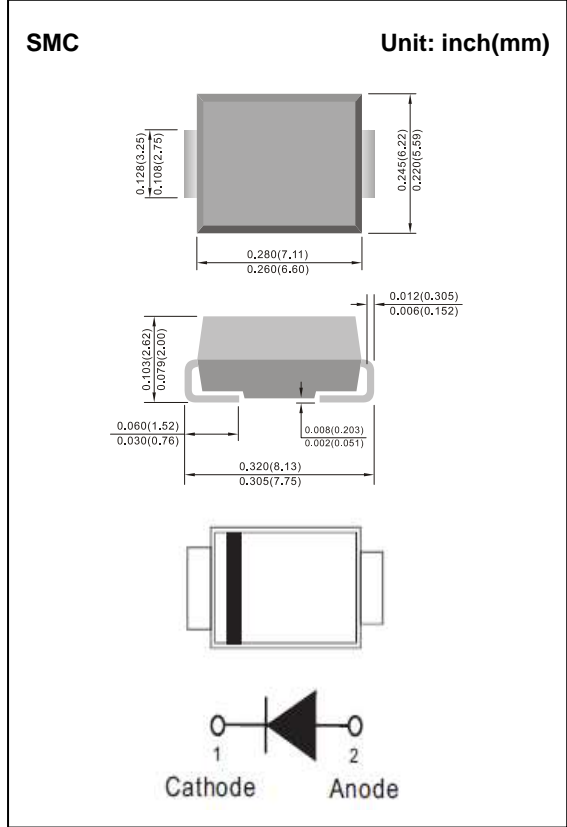
Voltage	200 V	Current	4 A
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Features

- 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 Moulded 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	V _{RRM}	200	V
Maximum rms voltage	V _{RMS}	140	V
Maximum dc blocking voltage	V _R	200	V
Maximum average forward rectified current	I _{F(AV)}	4	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100	A
Typical junction capacitance (V _R =4V, f=1MHz)	C _J	80	pF
Typical thermal resistance	(Note 2) R _{θJL}	15	°C/W
	(Note 2) R _{θJC}	23	
	(Note 1) R _{θJA}	110	
Maximum reverse recovery time	T _{RR}	35	ns
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-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.



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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	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	T _J =25°C	-	0.71	-	V
		I _F =2A		-	0.76	-	
		I _F =4A		-	-	0.86	
		I _F =1A	T _J =125°C	-	0.55	-	V
I _F =2A	-	0.61		-			
Reverse current	I _R	V _R =160V	T _J =25°C	-	30	-	nA
		V _R =200V	T _J =25°C	-	-	5	μA
			T _J =125°C	-	-	5	mA



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TYPICAL CHARACTERISTIC CURVES

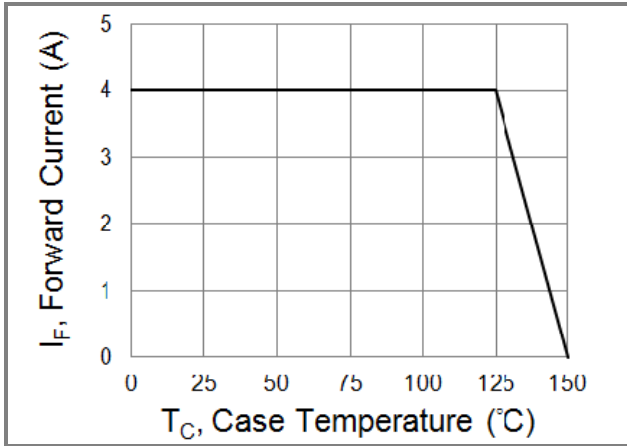


Fig.1 Forward Current Derating Curve

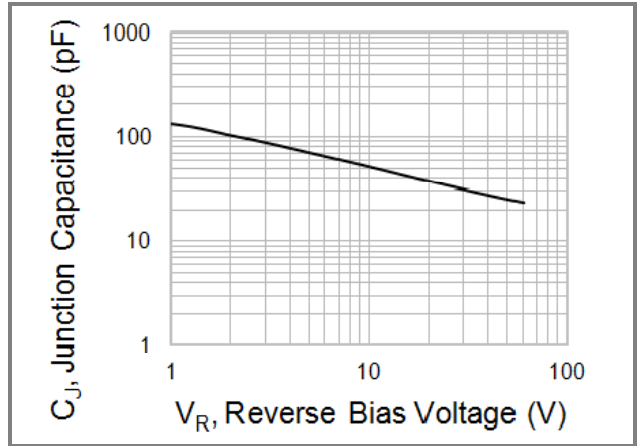


Fig.2 Typical Junction Capacitance

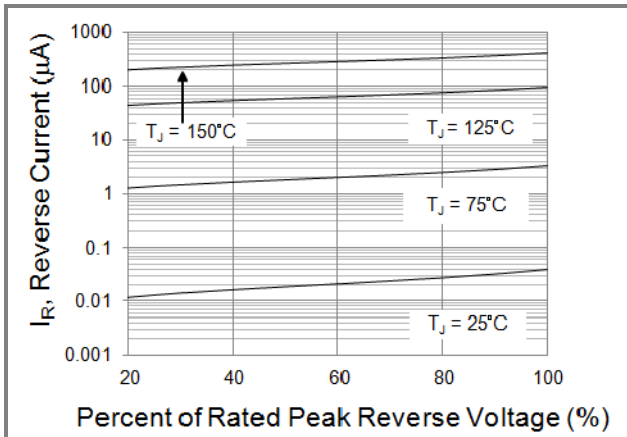


Fig.3 Typical Reverse Characteristics

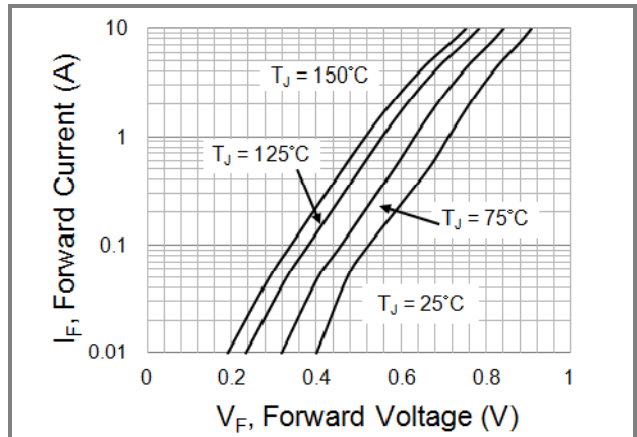


Fig.4 Typical Forward Characteristics

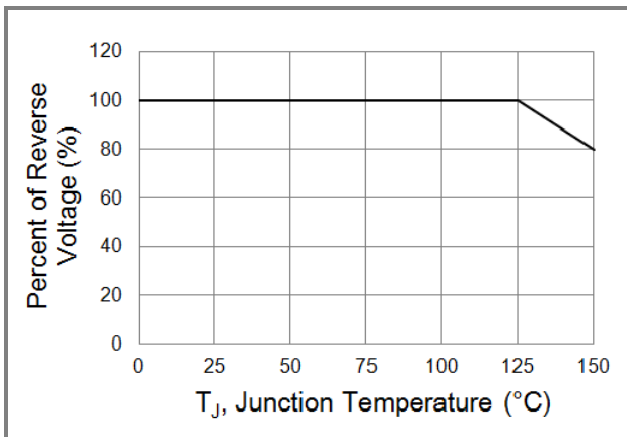


Fig.5 Operating Temperature Derating Curve



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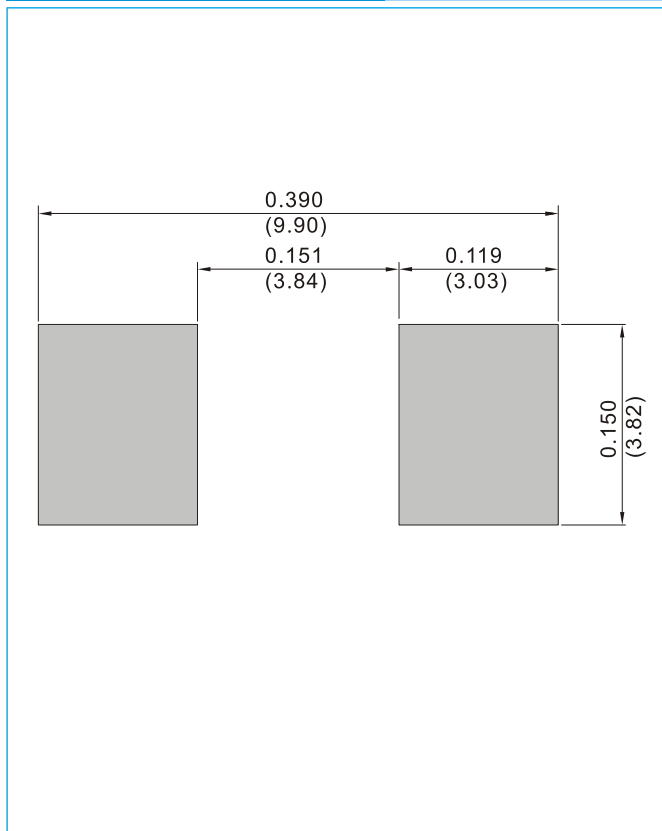
Part No. Packing Code Version

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

SMC / DO-214AB

Unit : inch(mm)





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