

BR34 SERIES

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 to 200 Volt **CURRENT** 3 Ampere

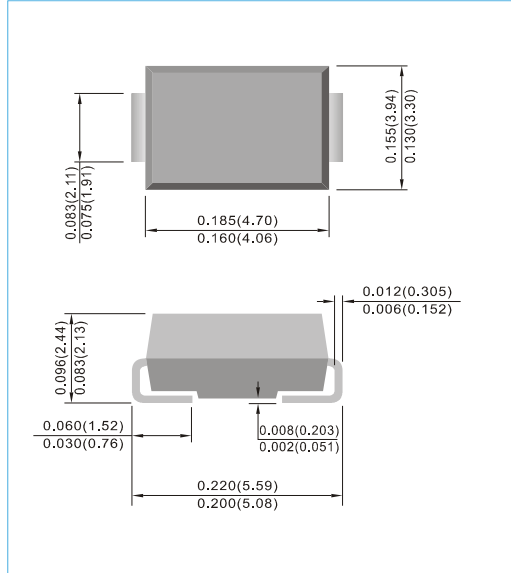
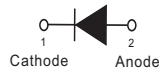
SMB / DO-214AA Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Low power loss,high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounces, 0.092 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER		SYMBOL	BR34	BR34A	BR35	BR36	BR38	BR39	BR310	BR315	BR320	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage		V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current		I _{F(AV)}	3									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	80									A
Maximum Forward Voltage at 3A (Notes 1)		V _F	0.7		0.74		0.8		0.9		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	0.05									mA
	T _J =125°C		20			10						
Typical Thermal Resistance	(Notes 2) (Notes 3)	R _{θJA} R _{θJL}	135 23									°C / W
Operating Junction and Storage Temperature Range		T _J , T _{STG}	-55 to +150	-65 to +175								°C

NOTES :

1. Pulse Test with PW=300μsec, 2% Duty Cycle.
2. Mounted on a FR4 PCB, single-sided copper, mini pad.
3. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

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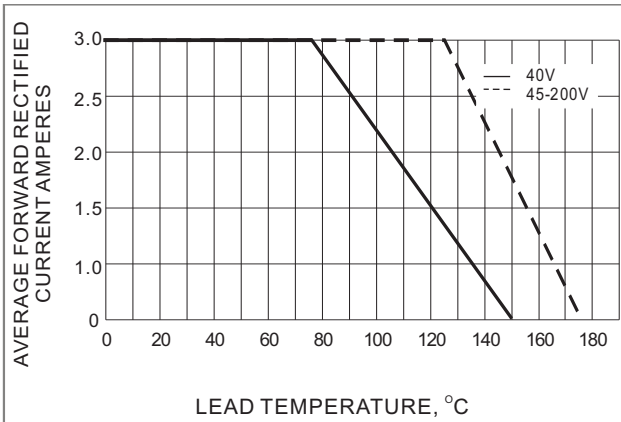


Fig.1 Forward Current Derating Curve

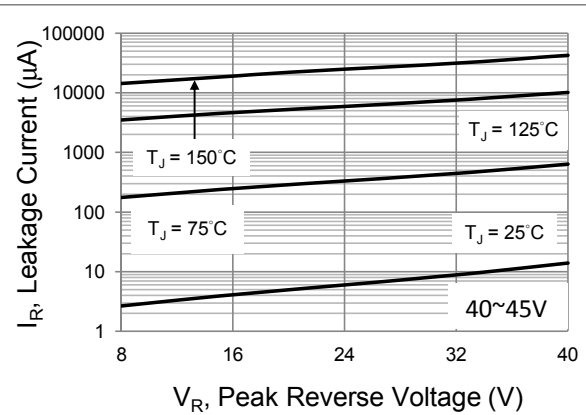


Fig.2 Typical Reverse Characteristics

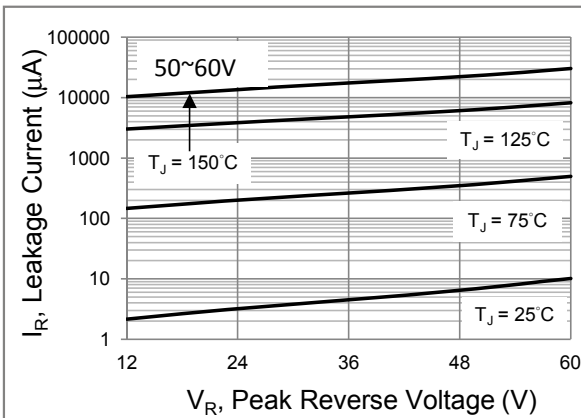


Fig.3 Typical Reverse Characteristics

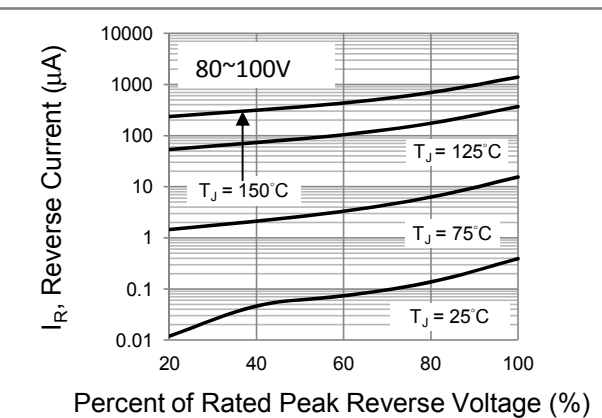


Fig.4 Typical Reverse Characteristics

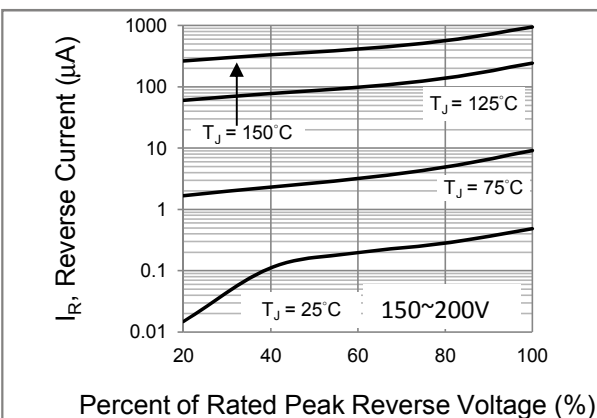


Fig.5 Typical Reverse Characteristics

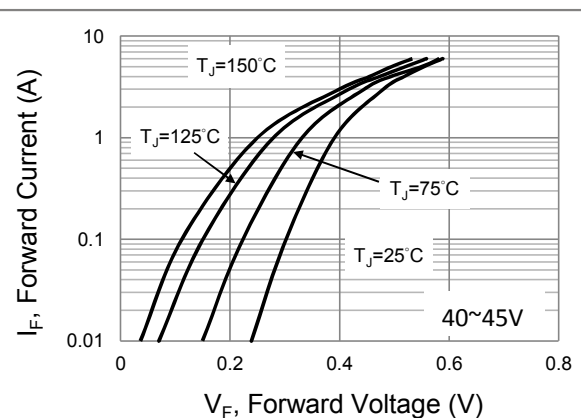


Fig.6 Typical Forward Characteristics

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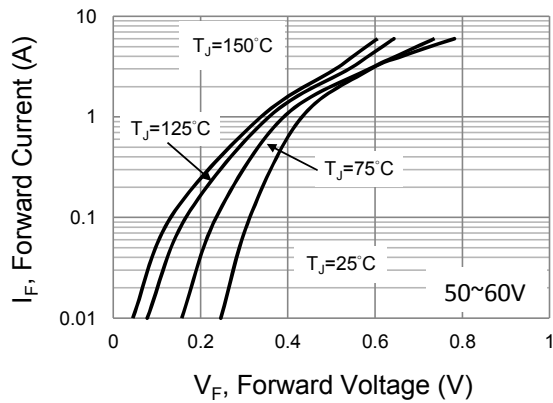


Fig.7 Typical Forward Characteristics

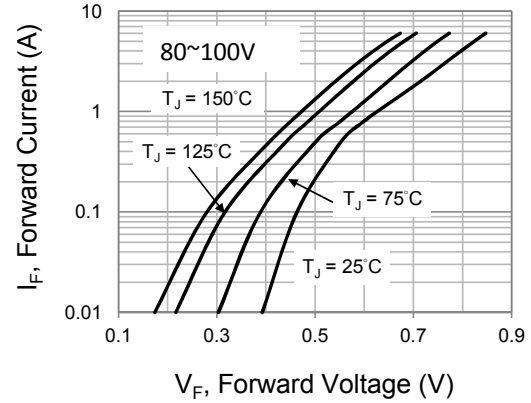


Fig.8 Typical Forward Characteristics

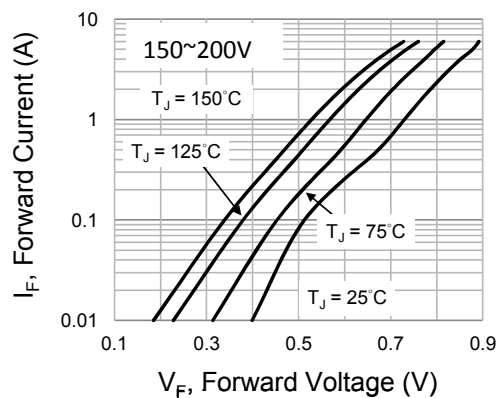


Fig.9 Typical Forward Characteristics

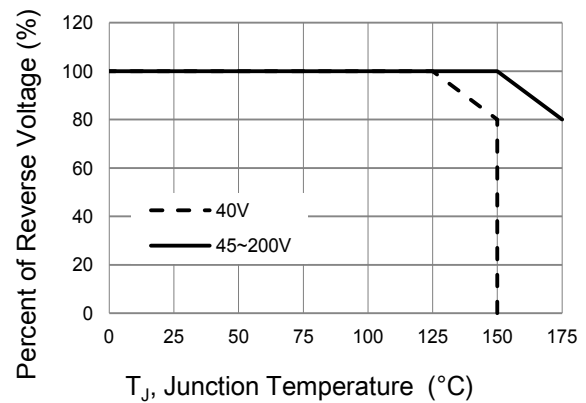
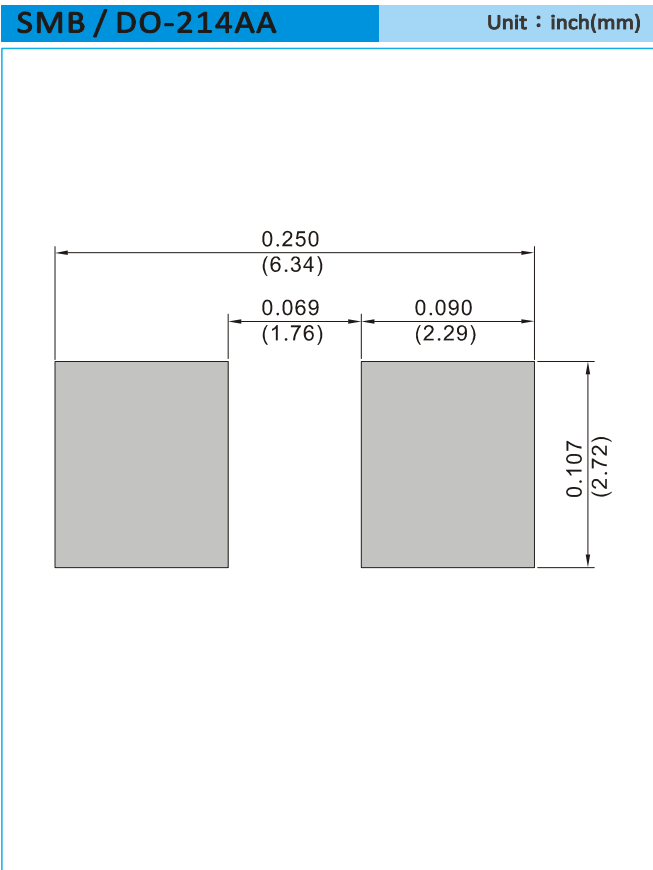


Fig.10 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 3K per 13" plastic Reel
 - T/R - 0.8K per 7" plastic Reel

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Part No_packing code_Version

BR34_R1_00001

BR34_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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