



MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 to 200 Volt CURRENT 3 Ampere

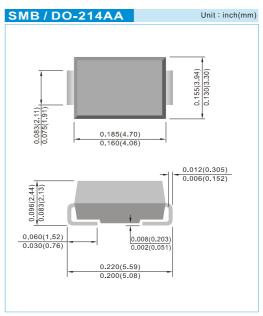
FEATURES

- 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	٧
Maximum RMS Voltage		V _{RMS}	28	31.5	35	42	56	63	70	105	140	٧
Maximum DC Blocking Voltage		V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current		I _{F(AV)}	3							А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	80						А			
Maximum Forward Voltage at 3A (Notes 1)		V _F	0.74			0.8			0.9		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C		0.05							- mA		
	T _J =125°C	' _R	20 10									
Typical Thermal Resistance	(Notes 2) (Notes 3)	R _{eJA} R _{eJL}	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 100cm ² copper pad area





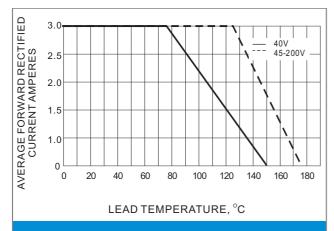


Fig.1 Forward Current Derating Curve

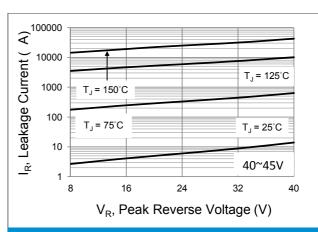


Fig.2 Typical Reverse Characteristics

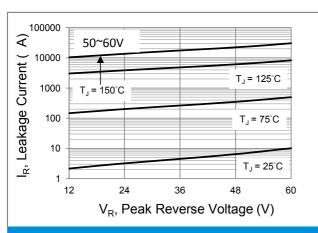


Fig.3 Typical Reverse Characteristics

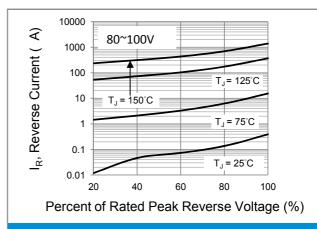
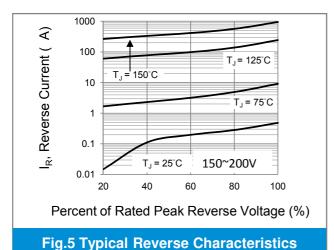


Fig.4 Typical Reverse Characteristics



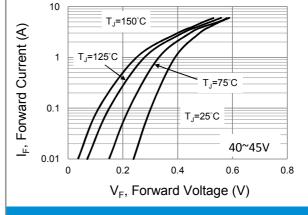


Fig.6 Typical Forward Characteristics





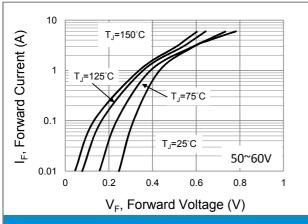


Fig.7 Typical Forward Characteristics

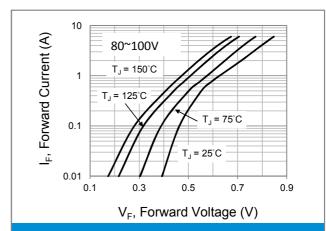


Fig.8 Typical Forward Characteristics

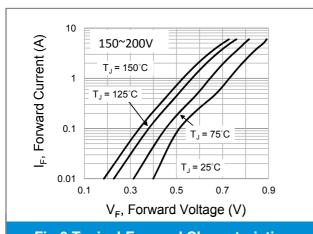


Fig.9 Typical Forward Characteristics

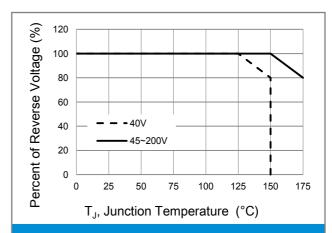
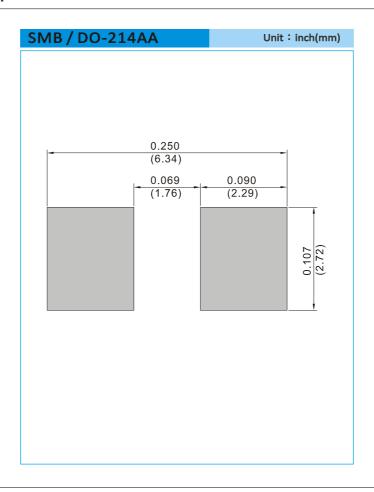


Fig.1 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





Part No_packing code_Version

BR34_R1_00001 BR34_R2_00001

For example:



Packing Code XX				Version Code XXXXX					
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)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	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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