



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 to 200 Volt CURRENT 3 Ampere

FEATURES

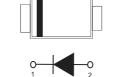
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: JEDEC DO-214AC molded plastic

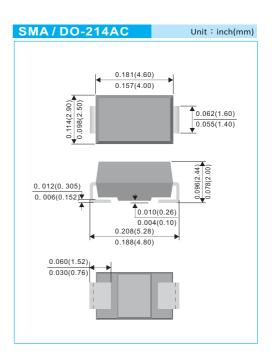
• Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end
Standard packaging: 12mm tape (EIA-481)
Weight: 0.0023 ounces, 0.0679 grams



Anode

Cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	BX34	BX34A	BX35	BX36	BX38	BX39	BX310	BX315	BX320	UNITS
Maximum Recurrent Peak Reverse Voltage		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 (See figure1)	I _{F(AV)}	3							А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80							Α		
Maximum Forward Voltage at 3A (Note 1)		0	.7	0.74 0.8			0.9		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.05				mA					
Maximum DC Reverse Current at Rated DC Blocking T_J =100°C Voltage	I _R	5		2		1		mA			
Typical Thermal Resistance (Note 2)	R _{eJL} R _{eJA}	20 75			°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, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 8mm² (0.013mm thick) copper pad areas.





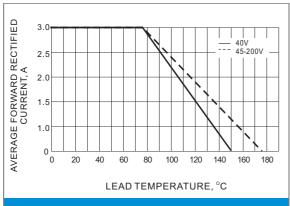


Fig.1 Forward Current Derating Curve

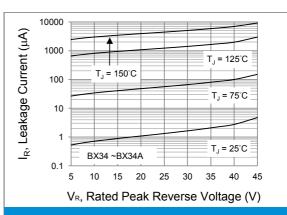


Fig.2 Typical Reverse Characteristics

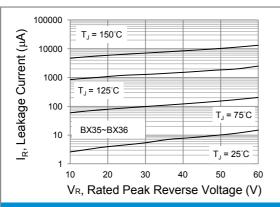


Fig.3 Typical Reverse Characteristics

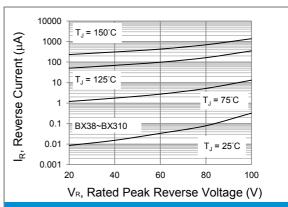


Fig.4 Typical Reverse Characteristics

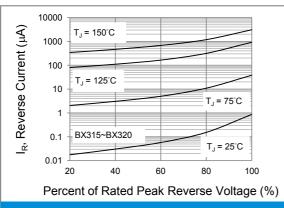


Fig.5 Typical Reverse Characteristics

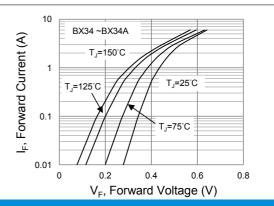


Fig.6 Typical Forward Characteristics





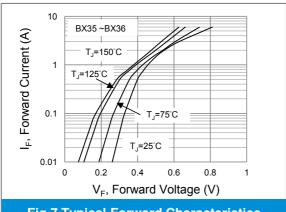


Fig.7 Typical Forward Characteristics

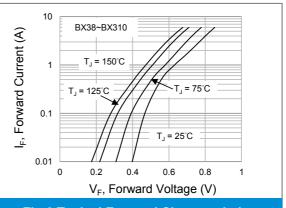
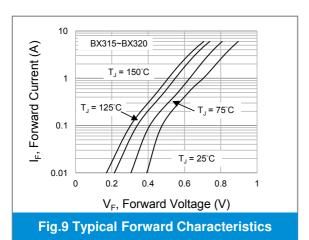


Fig.8 Typical Forward Characteristics



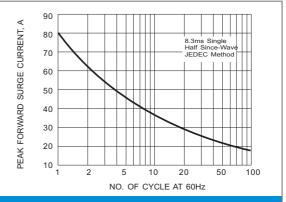


Fig.10 Maximum Non-Repetitive Surge Current

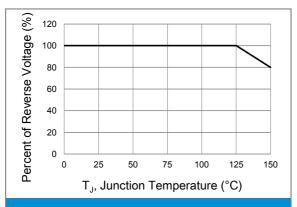
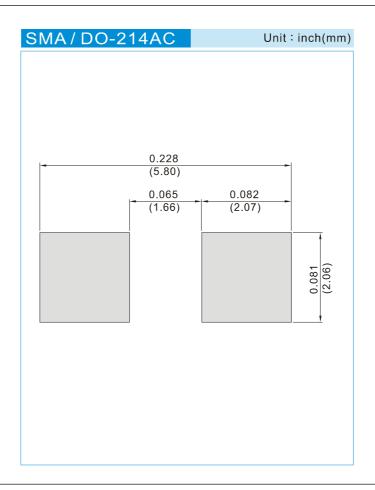


Fig.11 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel

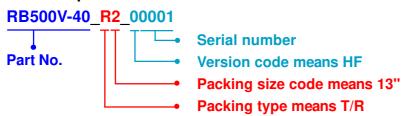




Part No_packing code_Version

BX34_R1_00001 BX34_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							





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.