



#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 to 200 Volt CURRENT 3 Ampere

#### **FEATURES**

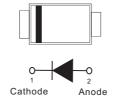
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

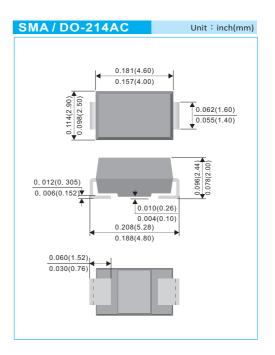
#### **MECHANICAL DATA**

· 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





### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

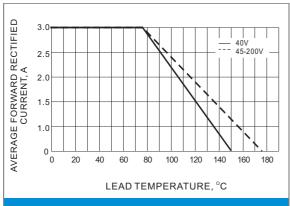
PARAMETER	SYMBOL	BX34	BX34A	BX35	BX36	BX38	BX39	BX310	BX315	BX320	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See figure1)	I <sub>F(AV)</sub>	3					Α				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80							Α		
Maximum Forward Voltage at 3A (Note 1)	V <sub>F</sub>	0	.7	0.	74	0.8 0.9		.9	V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.05				mA					
Maximum DC Reverse Current at Rated DC Blocking $T_J$ =100°C Voltage	I <sub>R</sub>	5		2		1		mA			
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	20 75				°C/W					
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150 -65 to +175			°C						

#### NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with  $8\,\text{mm}^2$  (0.013mm thick) copper pad areas.







**Fig.1 Forward Current Derating Curve** 

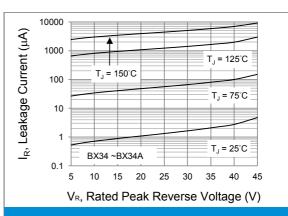


Fig.2 Typical Reverse Characteristics

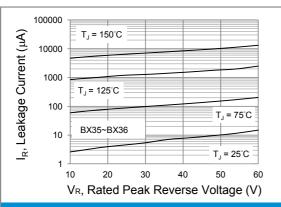


Fig.3 Typical Reverse Characteristics

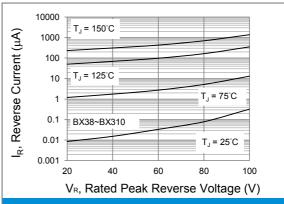


Fig.4 Typical Reverse Characteristics

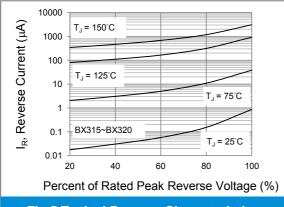
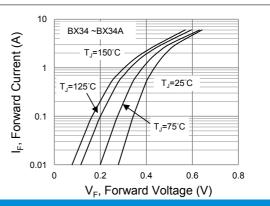


Fig.5 Typical Reverse Characteristics



**Fig.6 Typical Forward Characteristics** 





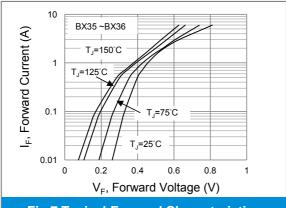


Fig.7 Typical Forward Characteristics

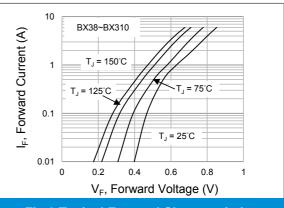


Fig.8 Typical Forward Characteristics

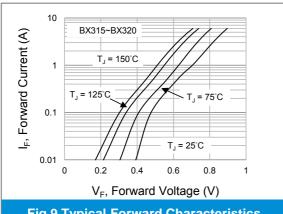


Fig.9 Typical Forward Characteristics

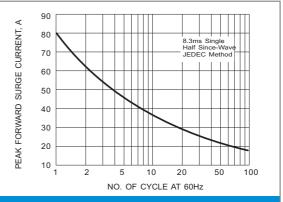


Fig.10 Maximum Non-Repetitive Surge Current

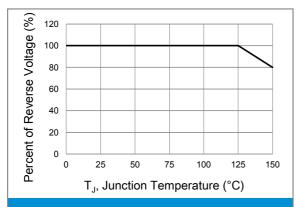


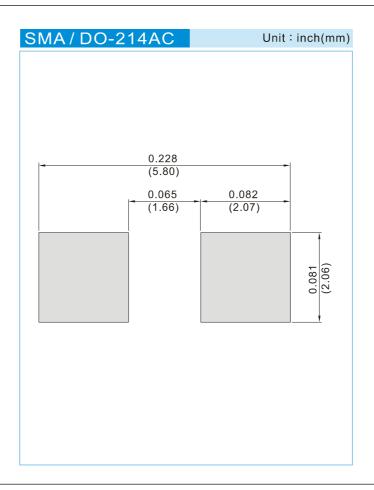
Fig.11 Operating Temperature Derating Curve

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### 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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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