



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 to 200 Volt CURRENT 3 Ampere

FEATURES

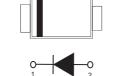
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

• Case: JEDEC DO-214AC molded plastic

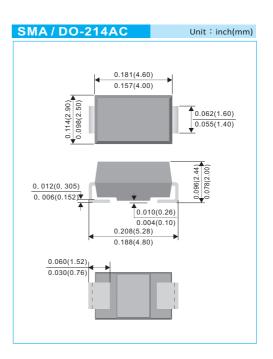
• Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

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.

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PARAMETER	SYMBOL	BX34	BX34A	BX35	BX36	BX38	BX39	BX310	BX315	BX320	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 (See figure1)	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 (Note 1)		0	.7	0.74 0.8		0.9		V			
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage	I _R	0.05							mA		
Maximum DC Reverse Current at Rated DC Blocking $$\rm T_J = 100^{\circ}C$$ 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		-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.

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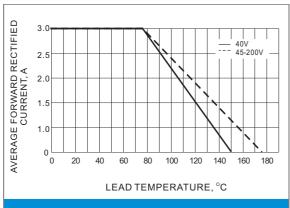


Fig.1 Forward Current Derating Curve

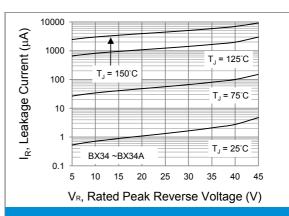


Fig.2 Typical Reverse Characteristics

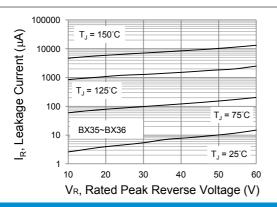


Fig.3 Typical Reverse Characteristics

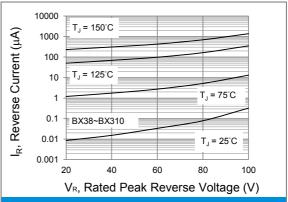


Fig.4 Typical Reverse Characteristics

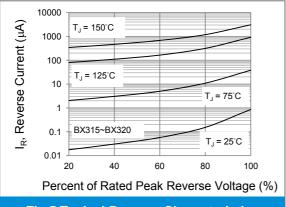


Fig.5 Typical Reverse Characteristics

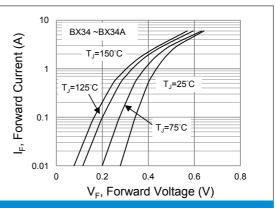


Fig.6 Typical Forward Characteristics





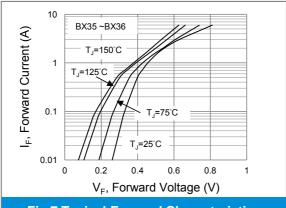


Fig.7 Typical Forward Characteristics

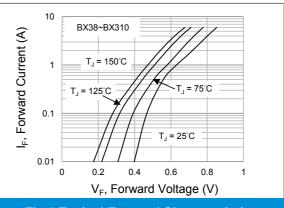
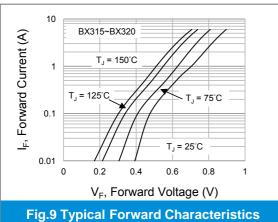


Fig.8 Typical Forward Characteristics



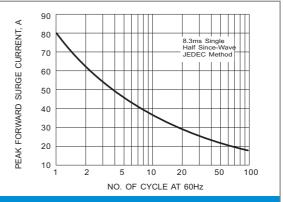


Fig.10 Maximum Non-Repetitive Surge Current

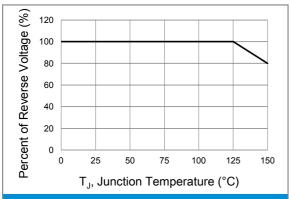
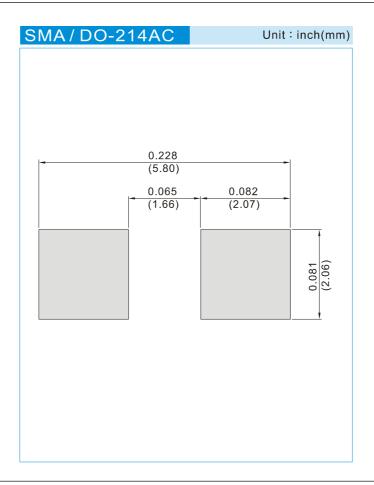


Fig.11 Operating Temperature Derating Curve





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		-				





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