

BX34~BX320

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

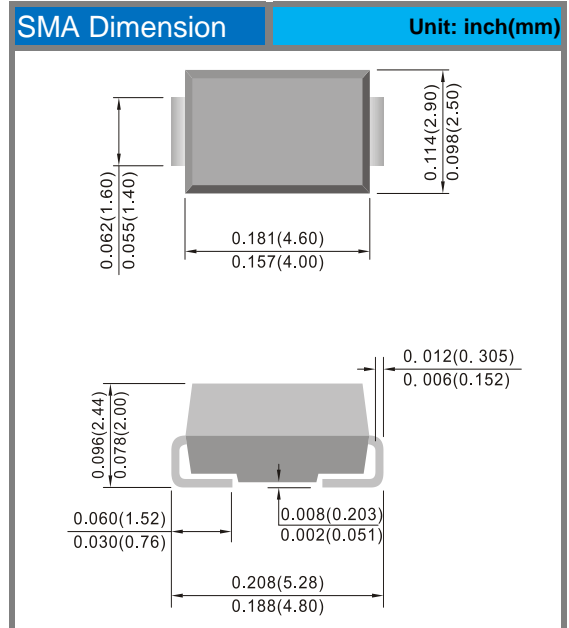
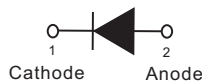
VOLTAGE 40 to 200 Volt **CURRENT** 3 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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)
- Approx. Weight : 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	UNIT
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 figure 1)	$I_{F(AV)}$	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 (Note 1)	V_F	0.7	0.74		0.8			0.9			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$	I_R	0.05									mA
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=100^{\circ}C$	I_R	5			2			1			mA
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$					20 75					$^{\circ}C / W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150		-65 to +175							$^{\circ}C$

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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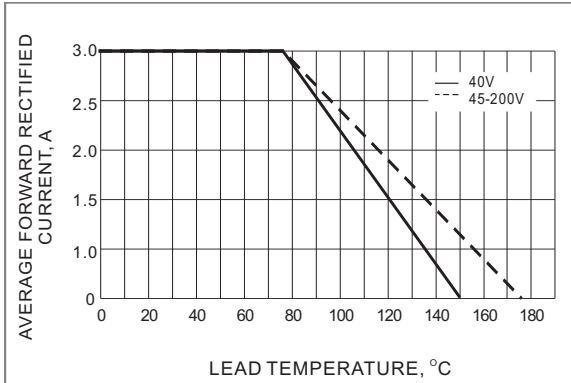


Fig.1 Forward Current Derating Curve

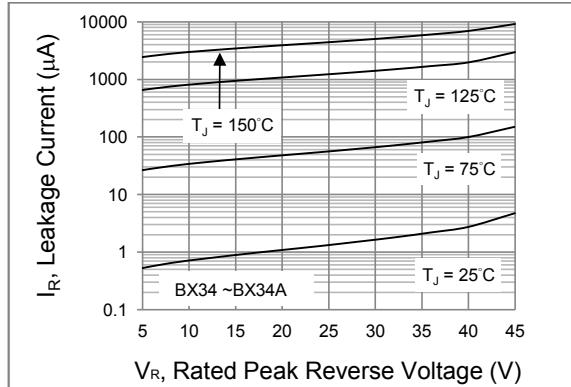


Fig.2 Typical Reverse Characteristics

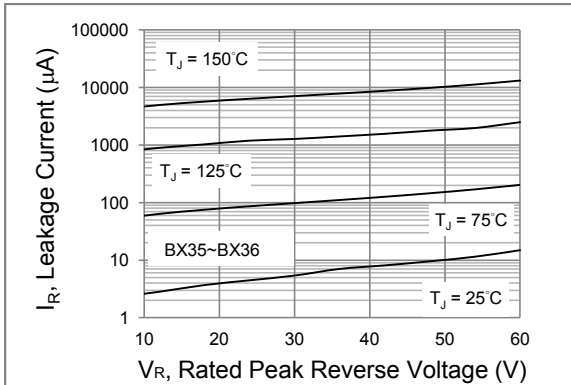


Fig.3 Typical Reverse Characteristics

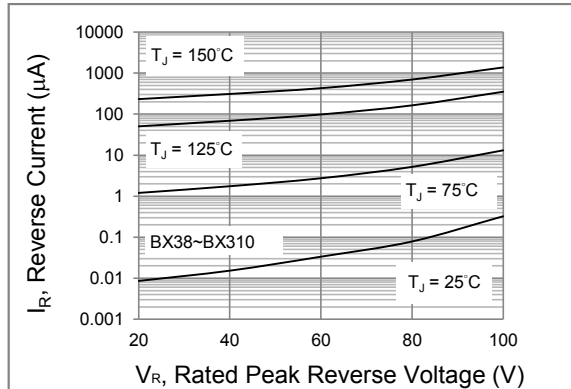


Fig.4 Typical Reverse Characteristics

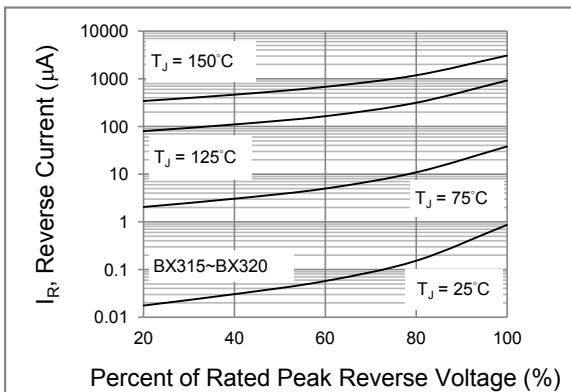


Fig.5 Typical Reverse Characteristics

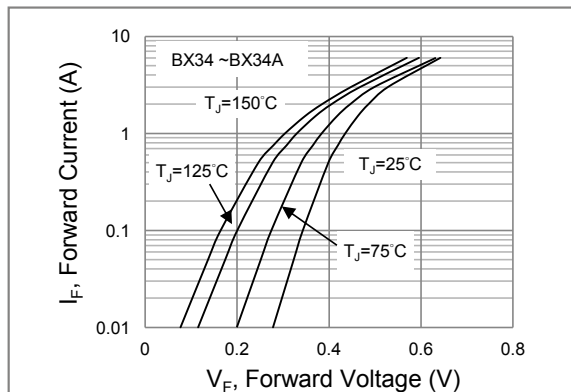


Fig.6 Typical Forward Characteristics

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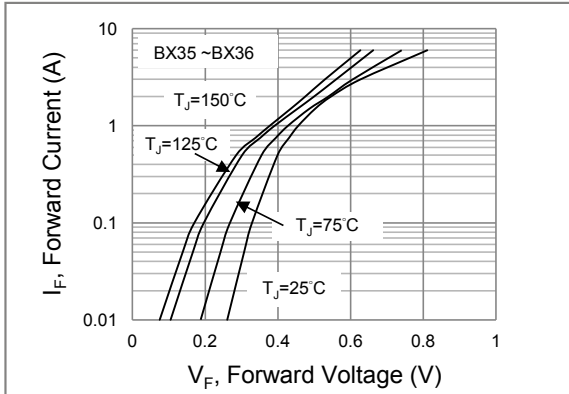


Fig.7 Typical Forward Characteristics

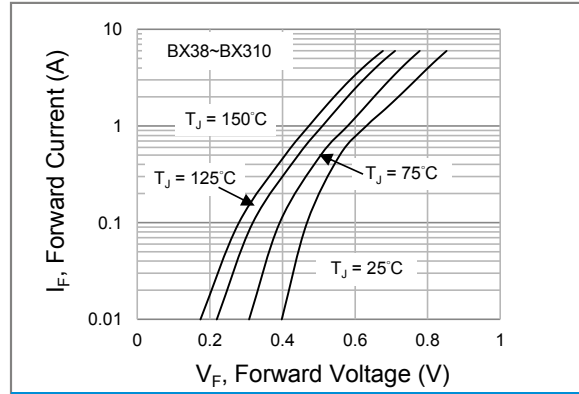


Fig.8 Typical Forward Characteristics

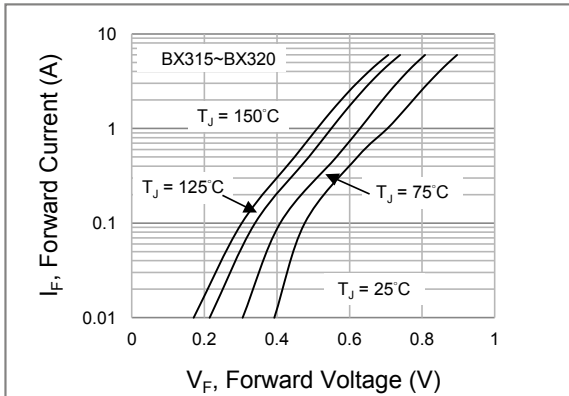


Fig.9 Typical Forward Characteristics

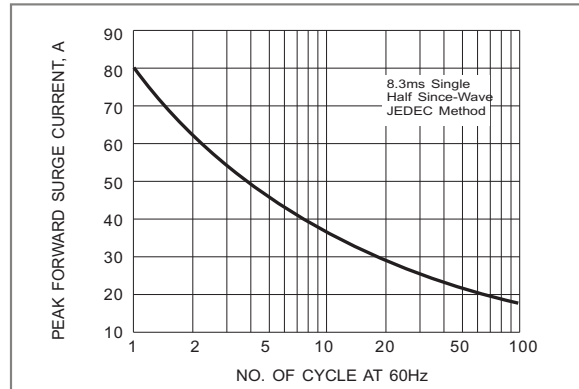


Fig.10 Maximum Non-Repetitive Surge Current

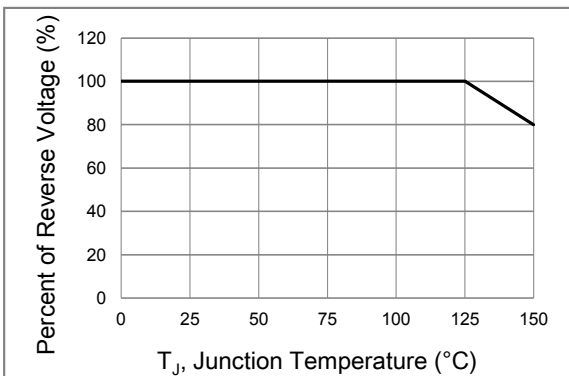


Fig.11 Operating Temperature Derating Curve

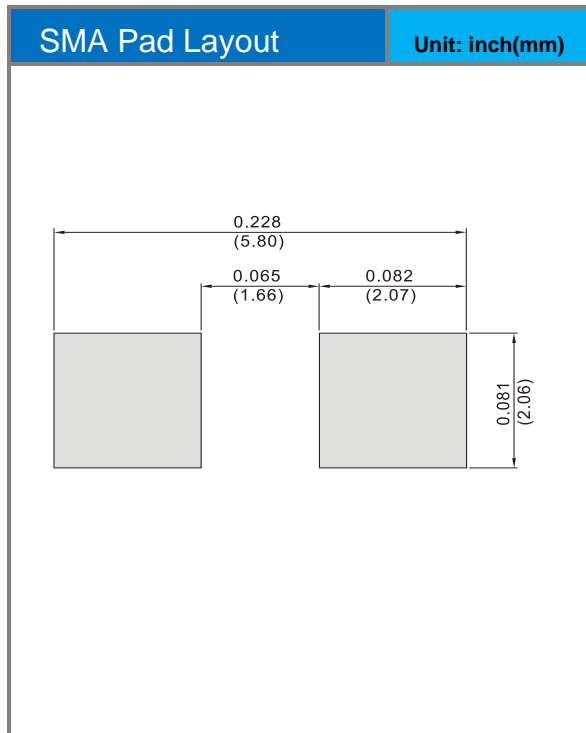
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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BX34	SMA	1.8K pcs / 7" reel	BX34
BX34	SMA	7.5K pcs / 13" reel	BX34
BX34A	SMA	1.8K pcs / 7" reel	BX34A
BX34A	SMA	7.5K pcs / 13" reel	BX34A
BX35	SMA	1.8K pcs / 7" reel	BX35
BX35	SMA	7.5K pcs / 13" reel	BX35
BX36	SMA	1.8K pcs / 7" reel	BX36
BX36	SMA	7.5K pcs / 13" reel	BX36
BX38	SMA	1.8K pcs / 7" reel	BX38
BX38	SMA	7.5K pcs / 13" reel	BX38
BX39	SMA	1.8K pcs / 7" reel	BX39
BX39	SMA	7.5K pcs / 13" reel	BX39
BX310	SMA	1.8K pcs / 7" reel	BX310
BX310	SMA	7.5K pcs / 13" reel	BX310
BX315	SMA	1.8K pcs / 7" reel	BX315
BX315	SMA	7.5K pcs / 13" reel	BX315
BX320	SMA	1.8K pcs / 7" reel	BX320
BX320	SMA	7.5K pcs / 13" reel	BX320

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Mounting Pad Layout



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