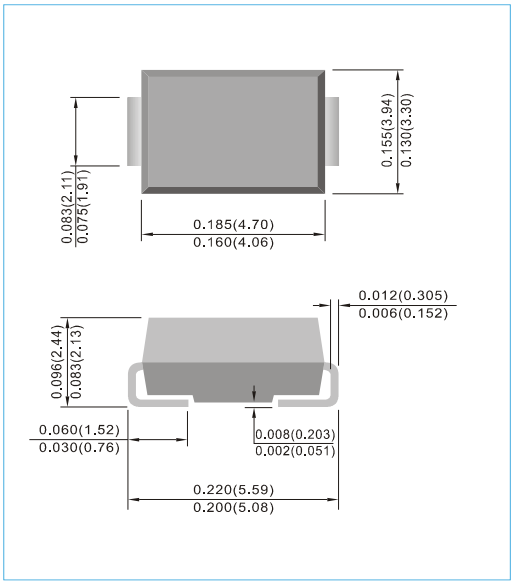
PANJIT SEMI CONDUCTOR

BR34 SERIES

MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

SMB / DO-214AA Unit : inch(mm)

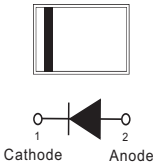


FEATURES

- 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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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	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		$I_{F(AV)}$	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 (Notes 1)		V_F	0.7		0.74		0.8			0.9		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_J=25°C	I_R	0.05									mA
	T_J=125°C		20				10					
Typical Thermal Resistance	(Notes 2) (Notes 3)	$R_{\theta JA}$ $R_{\theta JL}$	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

BR34 SERIES

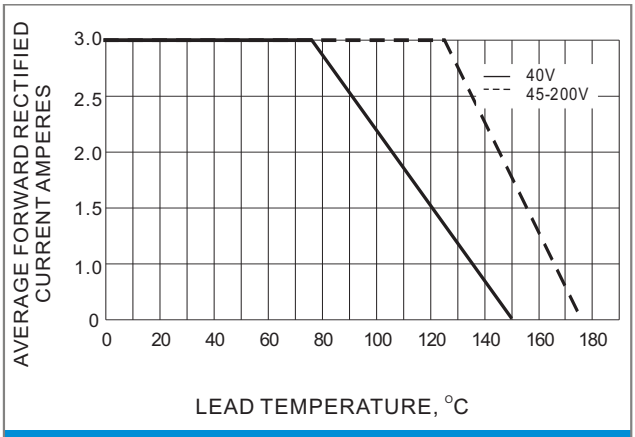


Fig.1 Forward Current Derating Curve

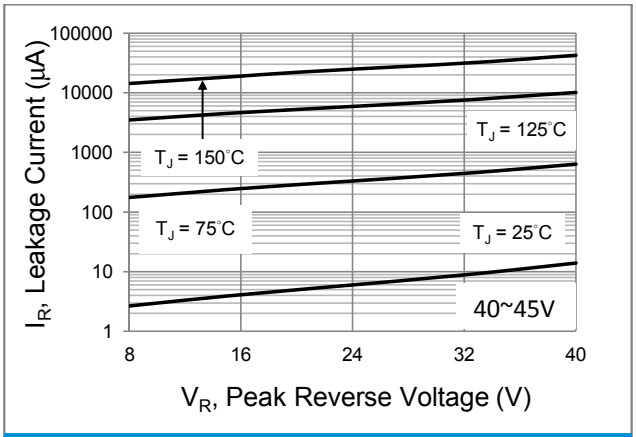


Fig.2 Typical Reverse Characteristics

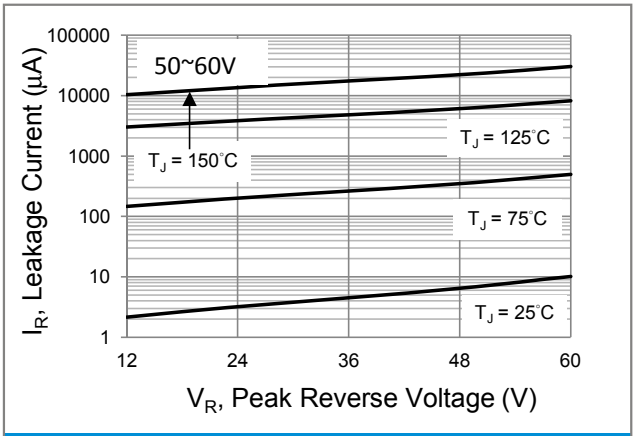


Fig.3 Typical Reverse Characteristics

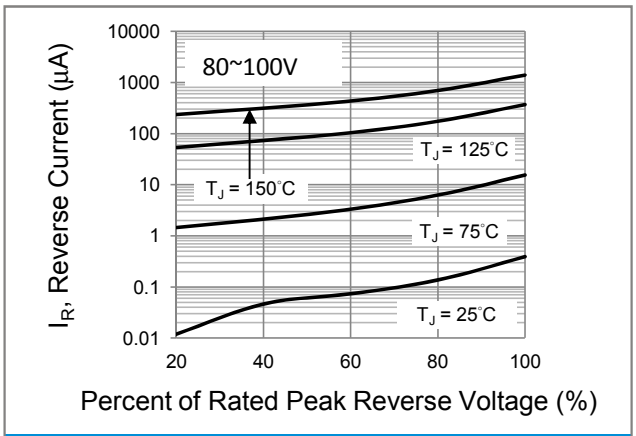


Fig.4 Typical Reverse Characteristics

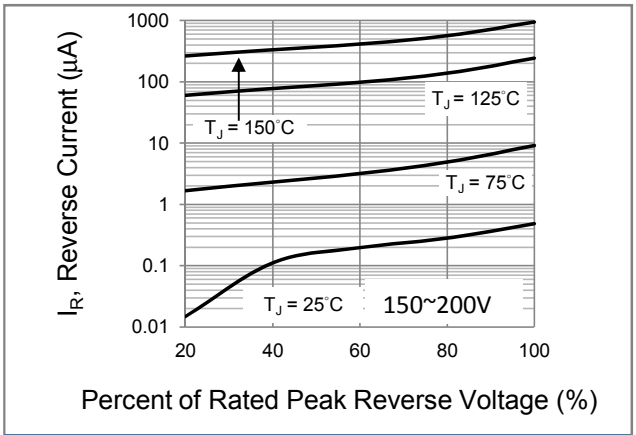


Fig.5 Typical Reverse Characteristics

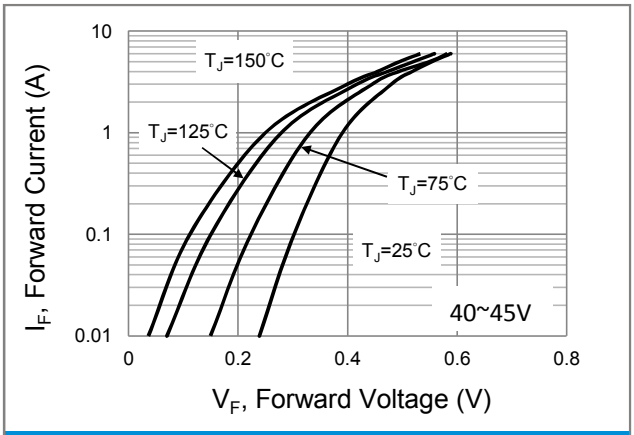


Fig.6 Typical Forward Characteristics

BR34 SERIES

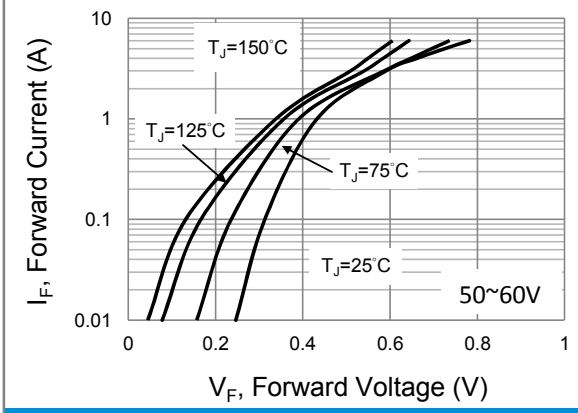


Fig.7 Typical Forward Characteristics

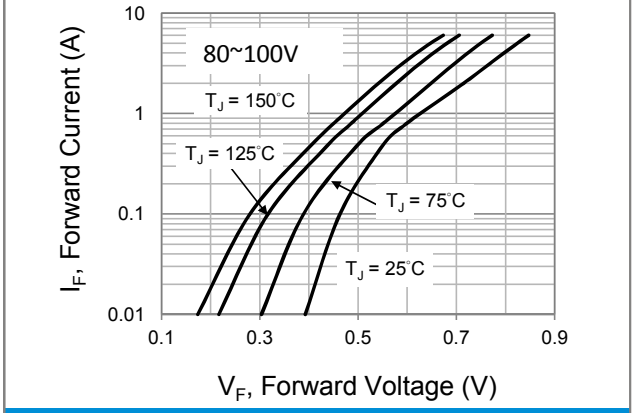


Fig.8 Typical Forward Characteristics

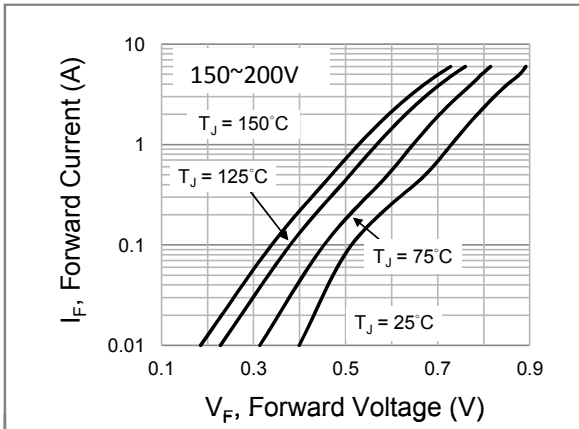


Fig.9 Typical Forward Characteristics

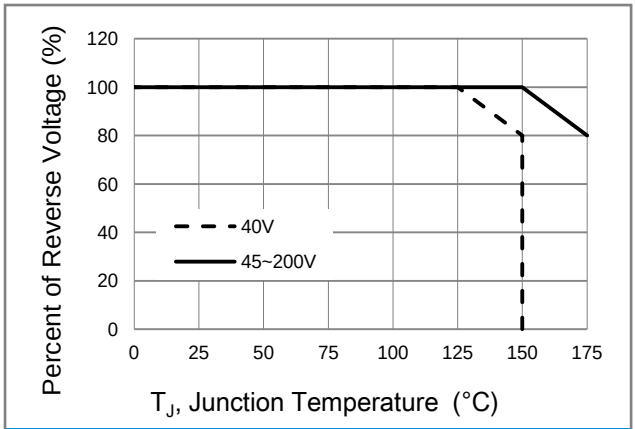
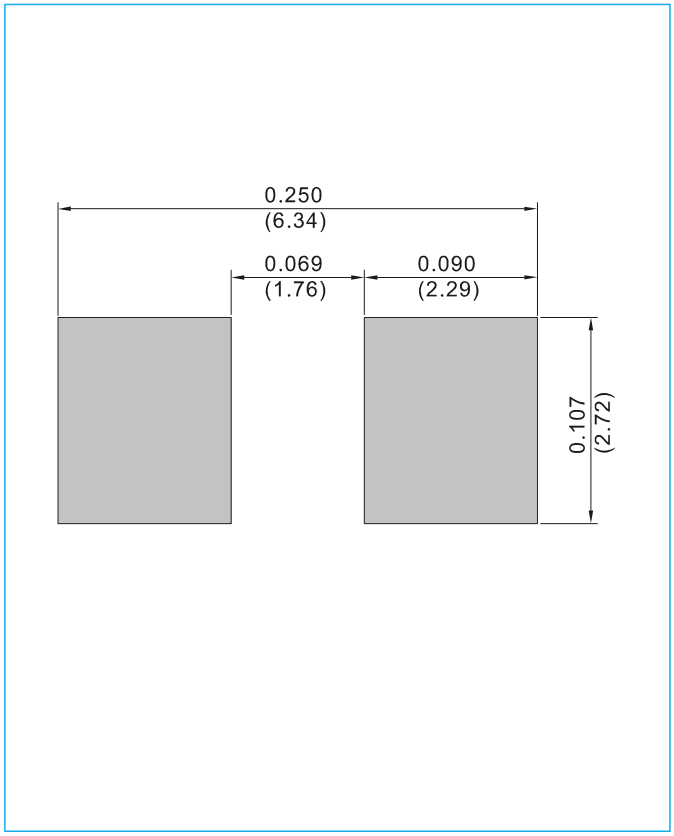


Fig.10 Operating Temperature Derating Curve

BR34 SERIES

MOUNTING PAD LAYOUT

SMB / DO-214AA Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 3K per 13" plastic Reel

  T/R - 0.5K per 7" plastic Reel

BR34 SERIES

Part No_packing code_Version

BR34_R1_00001

BR34_R2_00001

For example :

RB500V-40_R2_00001

- Part No.
- Serial number
- Version code means HF
- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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