

# BAT48S

## SCHOTTKY BARRIERS SWITCHING DIODES

**VOLTAGE** 40 Volt **CURRENT** 0.35 Ampere

**DO-34** Unit : inch(mm)

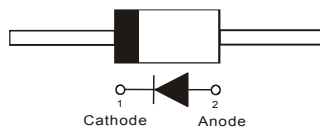
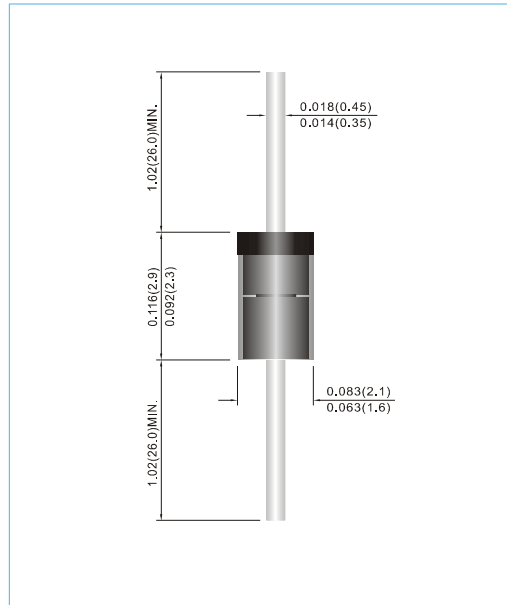
### FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

- Case: Molded Glass DO-34
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Ordering informatio

B/P - 2K per Bulk box  
 T/R - 10K per 15" Reel  
 T/B - 5K per horiz. tape & Ammo box



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

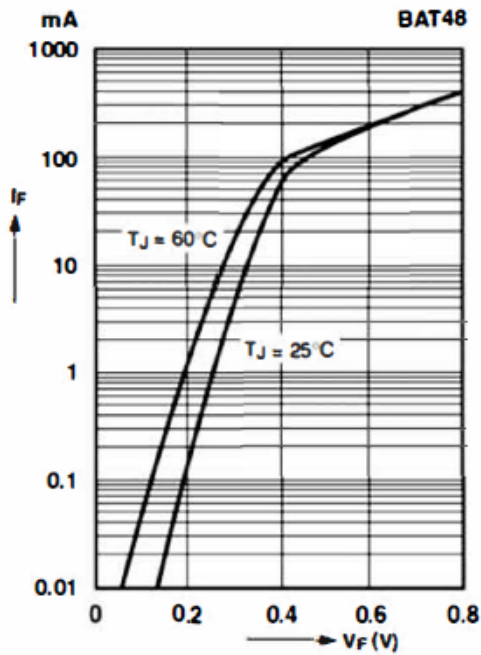
PARAMETER	SYMBOL	BAT48S	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	V
Peak reverse voltage	V <sub>R</sub>	40	V
Forward Continuous Currentt	I <sub>F(AV)</sub>	350	mA
Peak Forward Surge Current	I <sub>FSM</sub>	7.5	A
Maximum Forward Voltage	V <sub>F</sub>	0.25 0.30 0.40 0.50 0.75 0.90	V
Maximum Reverse Current	I <sub>R</sub>	2 5 25	μA
Thermal Resistance Junction to Ambieri air	R <sub>θJA</sub>	350	°C/W
Typical Junction Capacitance	C <sub>J</sub>	12	pF
Junction Temperature	T <sub>J</sub>	-55 to +125	°C
Storage Temperature	T <sub>STG</sub>	-55 to +150	°C

NOTE :1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHZ

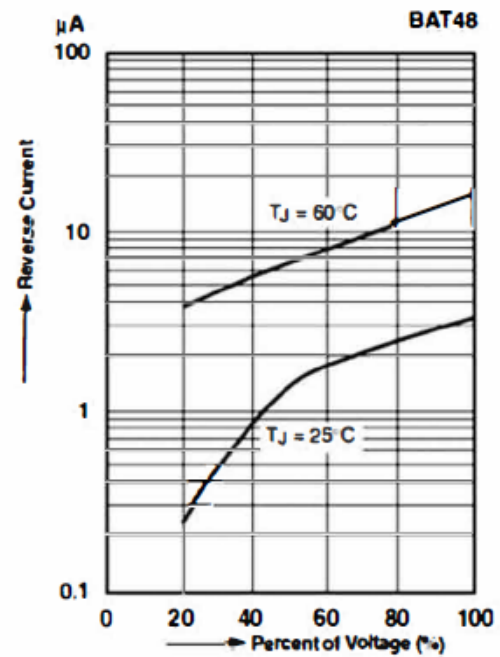
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## RATING AND CHARACTERISTIC CURVES

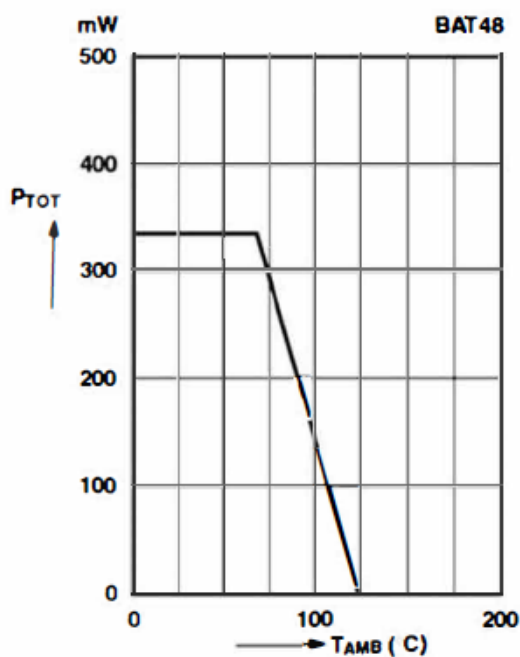
Forward Characteristics



Typical Reverse Characteristics



Admissible Power Dissipation vs. Ambient Temperature

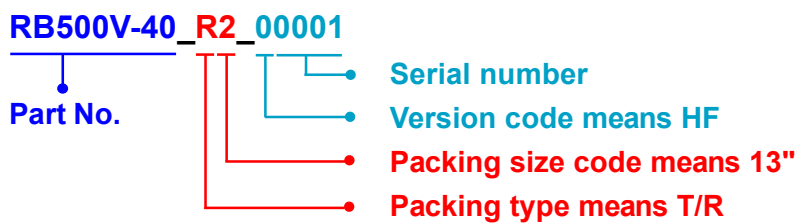


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## Part No\_packing code\_Version

BAT48S\_AX\_10001  
 BAT48S\_AY\_10001  
 BAT48S\_R2\_10001  
 BAT48S\_B0\_10001

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)	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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