

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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BAT46WS

Features■ Halogen free available upon request by adding suffix "-HF"

- High breakdown voltage
- Low turn-on voltage
- Guard ring construction for transient protection

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band
- Marking: S9
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

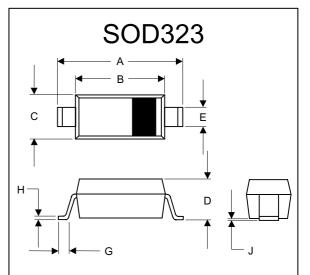
Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	100	V
Forward Continuous Current	I _F	150	mA
Repetitive peak Forward Current (Note 1)@ tp < 1.0s, Duty Cycle < 50%	I _{FRM}	350	mA
Non-repetitive Peak Forward surge current @ t = 8.3ms	I _{FSM}	750	mA
Power Dissipation	P _d	200	mW
Thermal Resistance Junction to Ambient Air	Rthja	500	K/W
Junction temperature	Tj	-55 to +125	°C
Storage temperature	Тѕтс	-55 to +150	°C

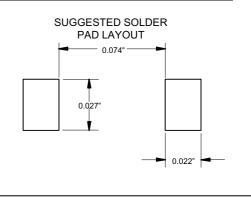
Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Тур	Max	Unit	Test Cond.
Forward Voltage Drop(Note2)	V _F			0.25 0.45 1	V	I==0.1mA I==10mA I==250mA
Reverse voltage leakage current	I _R			0.3 0.5 1 2	μΑ	V _R =1.5V V _R =10V V _R =50V V _R =75V
Reverse breakdown voltage(Note 2)	V _R	100			٧	I _R =100μA
Diode capacitance	Ст		20 12			V _R =0V, f=1.0MHz V _R =1V, f=1.0MHz

Schottky Barrier Diode 200mW



	DIMENSIONS					
DIM	INCHES		N	NOTE		
	MIN	MAX	MIN	MAX		
Α	.090	.107	2.30	2.70		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.045	0.80	1.15		
Е	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Н	.004	.010	0.10	0.25		
J		.006		0.15		



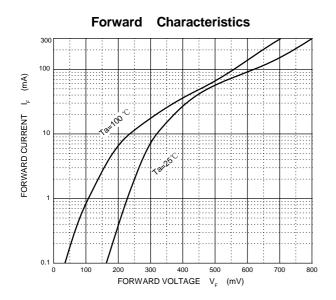
Notes: 1. Part mounted on FR-4 board with recommended pad layout.

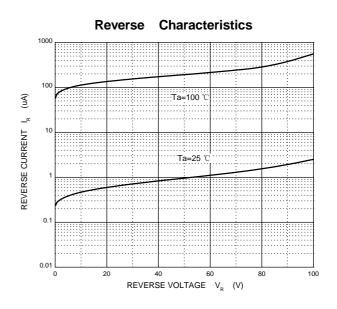
2. Short duration pulse test used to minimize self-heating effect.

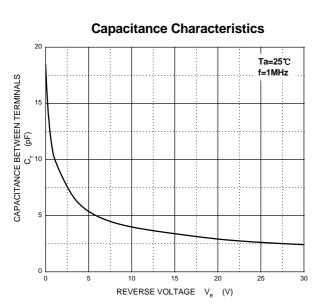
www.mccsemi.com

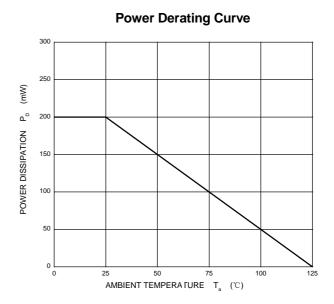


RATINGS AND CHARACTERISTIC CURVES











Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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