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B5817W thur B5819W

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Schottky Barrier Diode in SOD-123

Features

- Schottky barrier diodes
- Low forward voltage drop
- High Tunction Temperature

Mechanical Data

- Case: SOD-123 (plastic package). Lead free; RoHS compliant; Halogen free
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals



Applications

For use of fast swiching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-repetitive peak reverse voltage	V _{RM}	20	30	40	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	20	30	40	V
RMS reverse voltage	V _{R(RMS)}	14	21	28	V
Average rectified output current	lo	1		А	
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	J		A	
Repetitive peak forward current	I _{FRM}		1.5		А
Power dissipation	Pd		500		mW
Thermal resistance junction to ambient	R _{0JA}	200		°C /W	
Junction temperature	TJ	125		°C	
Storage temperature	T _{STG}	-55~+150		°C	



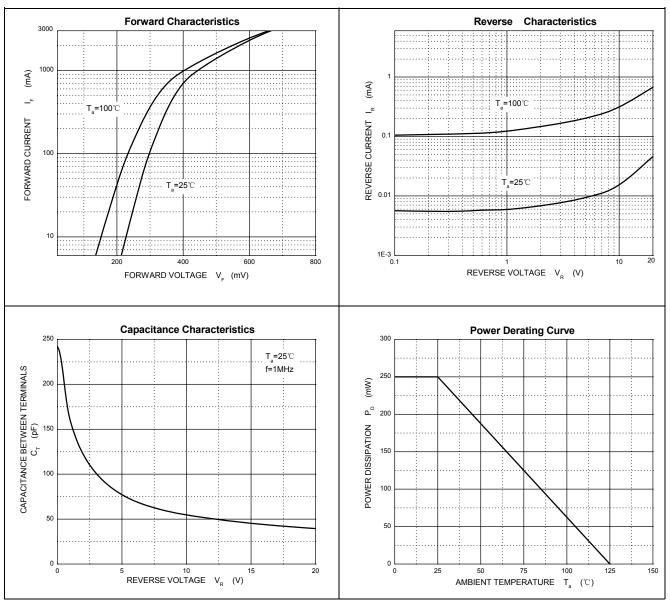
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Electrical Characteristics

(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Test co	nditions	Min	Max	Unit
Deverse has all deverse welfer as	V _(BR)	I _R = 1mA	B5817W	20		V
Reverse breakdown voltage			B5818W	30		
			B5819W	40		
		V _R =20V	B5817W			
Reverse voltage leakage current	I _R	V _R =30V	B5818W		1	mA
		V _R =40V	B5819W			
		B5817W	I _F =1A		0.45	V
			I _F =3A		0.75	
Forward voltage	V _F	B5818W	I _F =1A		0.55	V
	۴r		I _F =3A		0.875	
		B5819W	I _F =1A		0.6	V
			I _F =3A		0.9	v
Diode capacitance	CD	V _R =4V, f=1N	MHz		120	pF

Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

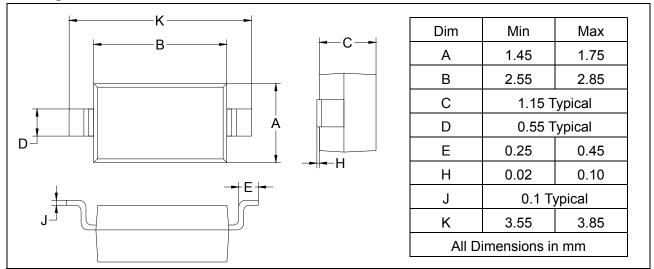




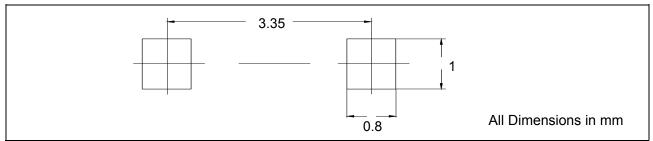
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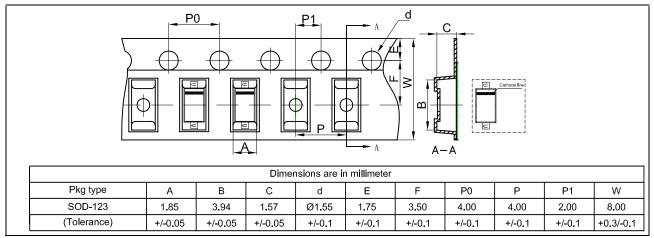
Package Dimensions



PAD Dimension



Package Information



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
B5817W thur B5819W	SOD-123	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
15-Aug2018	2.0	Update

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