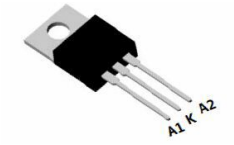
WSB10100T

Power Schottky Barrier Rectifier

Http://www.sh-willsemi.com

Features

- 2x5A average rectified forward current
- Low forward voltage and Low leakage current
- Excellent high junction temperature stability
- High forward surge capability



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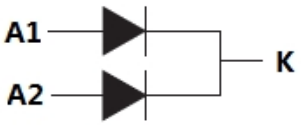
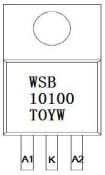


Circuit

Applications

- High frequency switch model power supplies
- DC-DC Convertors, Power adapters



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Marking

Absolute maximum ratings				
Parameter		**Symbol**	**Value**	**Unit**
Reverse voltage (repetitive peak)		V_{RM}	100	V
Reverse voltage (DC)		V_R	100	V
Average rectified forward current	Per diode	I_F	5	A
	Per device	I_F	10	A
Peak Forward Surge Current (1)		I_{FSM}	100	A
Junction temperature		T_J	150	^{0}C
Operating temperature		Topr	-55 ~ 150	^{0}C
Storage temperature		Tstg	-55 ~ 150	^{0}C
Thermal Resistance Ratings				
Maximum Thermal Resistance Junction To case (Per leg)		$R_{\theta JC}$	2.2	°C/W

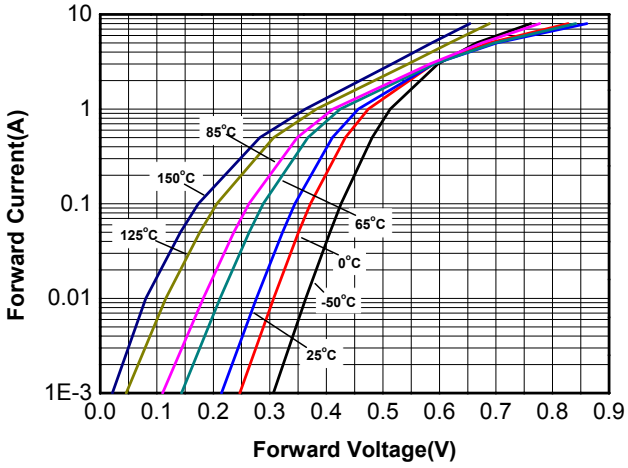
Order information			
Device	**Package**	**Marking**	**Units/Tube**
WSB10100T-3/T	TO-220	WSB10100TOYW (2)	50

Note 1: Pulse Width=8.3ms，Single Half Sine Pulse

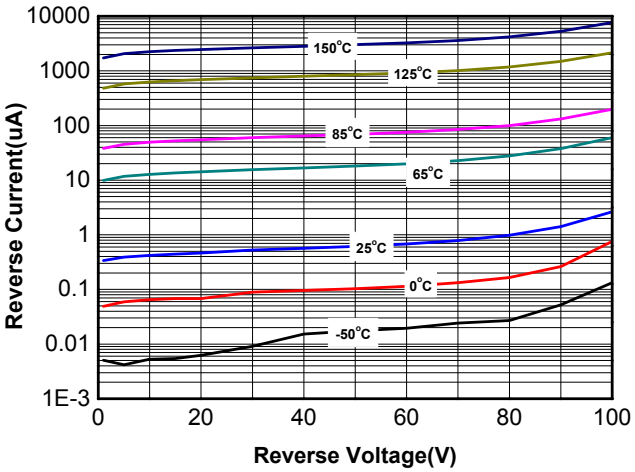
Note 2: WSB10100= Device code;TO=Special Code; Y=Year; W=Week (A~z)

Electronics characteristics (T_A=25°C, Per diode)						
Parameter	**Symbol**	**Condition**	**Min.**	**Typ.**	**Max.**	**Unit**
Reverse Breakdown Voltage	V_R	I_R=0.5mA	100	-	-	V
Forward voltage	V_F	I_F=5A	-	-	0.80	V
Reverse current	I_R	V_R=100V	-	-	0.1	mA
Junction capacitance	C_J	V_R=25V, F=1MHz	-	62	-	pF

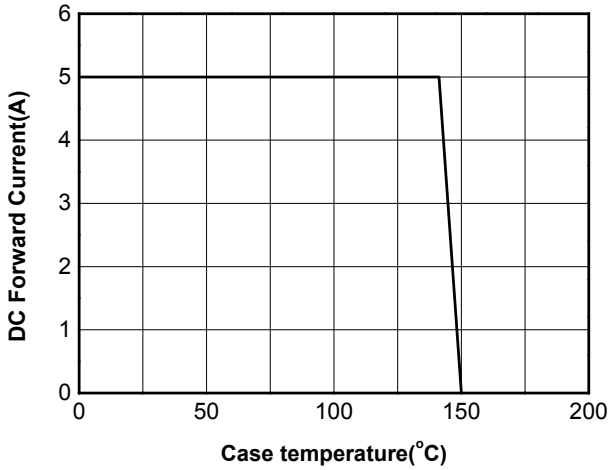
Typical characteristics (Ta=25°C, Per diode)



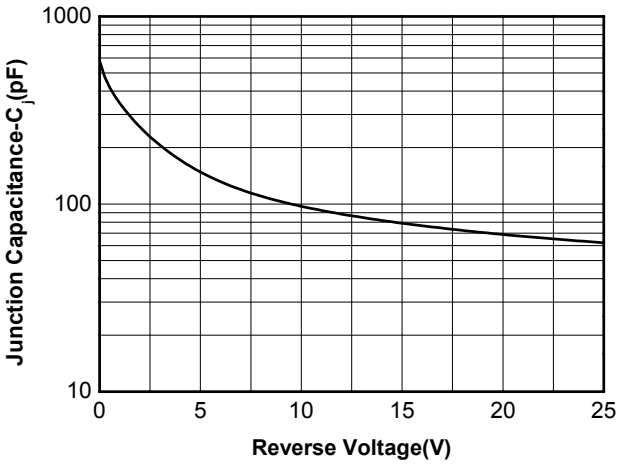
Forward voltage vs. Forward current



Reverse current vs. Reverse voltage



Forward Current Derating Curve



Junction capacitance vs. Reverse voltage

Package outline dimensions

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