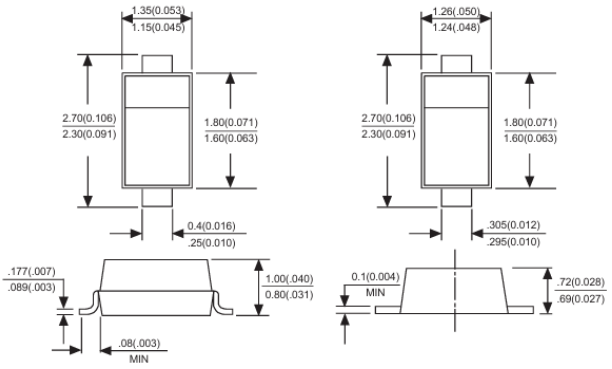
Schottky Barrier Diode

Features

- For use in low voltage, high frequency inverters
- Free wheeling and polarity protection
- **Case:** molded plastic body
- **Terminals**: plated leads solderable per mil-std-750, method 2026
- **Polarity:** polarity symbols marked on case

Case dimensions



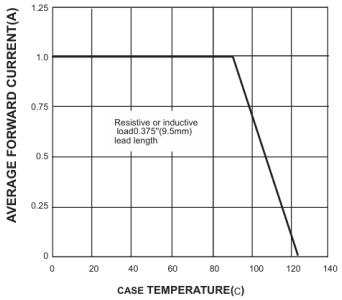
SOD-323

Maximum ratings (single diode, T_a=25°C)					
Parameter	**Symbol**	**Value**			**Unit**
Peak repetitive reverse voltage	V_{RRM}	40			V
Working peak	V_{RWM}				
DC blocking voltage	V_R				
RMS reverse voltage	$V_{R(RMS)}$	28			
Average rectified output current	I_O	1			A
Peak forward surge current at t=8.3ms	I_{FSM}	25			
Repetitive peak forward current	I_{FRM}	625			mA
Power dissipation	P_d	200			mW
Thermal resistance junction to ambient	$R_{\Theta ja}$	625			K/W
Storage temperature	T_{STG}	-65 ~ +150			°C
Non-repetitive peak reverse voltage	V_{RM}	20	30	40	V

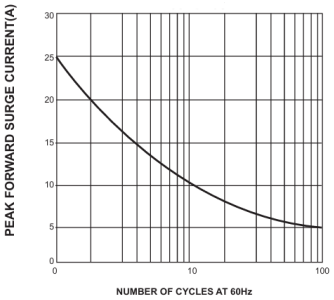
Electrical ratings (T_a=25°C)					
Parameter	**Symbol**	**Test conditions**	**MIN**	**MAX**	**Unit**
Reverse breakdown voltage	$V_{(BR)}$	I_R=1mA	40	-	V
Reverse voltage leakage current	I_R	V_R=40V	-	1	mA
Forward voltage	V_F	I_F=1A	-	600	mV
		I_F=3A	-	900	
Diode capacitance	C_D	V_R=4V, f=1.0MHz	-	120	pF

Ratings and characteristic curves

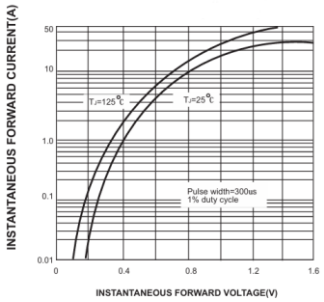
Forward current derating curve



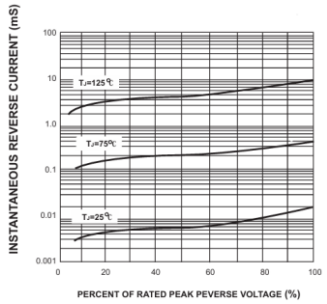
Maximum non-repetitive peak forward surge current



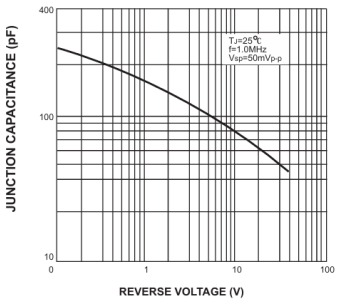
Typical instantaneous forward characteristics



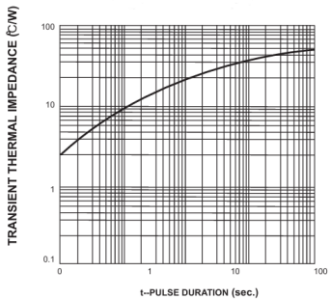
Typical reverse characteristics



Typical junction capacitance



Typical transient thermal impedance



Ordering information

Part Number	Package	Shipping Quantity
B5819WS	SOD-323	**3 000 pcs / reel**

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