

Schottky Barrier Diode

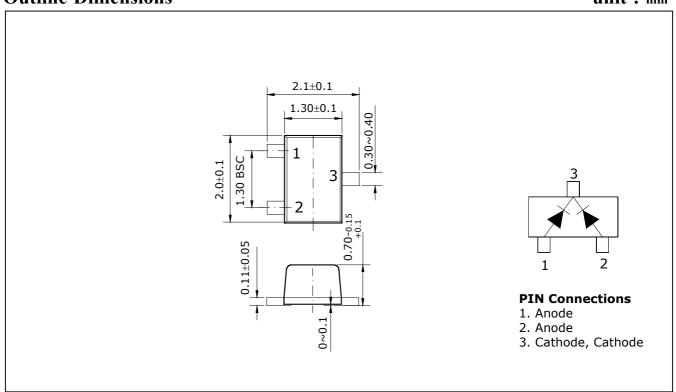
Features

- Low power rectified
- Silicon epitaxial type
- High reliability

Ordering Information

Type No.	Marking	Package Code	
SDB310WKUF	DB8	SOT-323F	

Outline Dimensions unit: mm



KSD-3035-000

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Reverse voltage	V _R	30	V
Repetitive peak forward current	I _{FRM} *	0.5	Α
Forward current	I_{F}	0.2	Α
Non-repetitive peak forward current(10ms)	I_{FSM}	2	А
Power dissipation	P _D	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 ~ 150	°C

^{* :} $\delta = D/T = 0.33$ (T<1S)



^{*:} Unit ratings. Total rating=Unit rating× 1.5

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage 1	V _{F(1)}	I _F =10mA	-	-	0.4	V
Forward voltage 2	V _{F(2)}	I _F =30mA	-	-	0.5	V
Reverse current	I_{R}	V _R =30V	-	-	1	μА
Total capacitance	C _T	V _R =1V, f=1MHz	-	-	10	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 10$ mA, $I_{RR} = 1$ mA, $R_L = 100\Omega$	-	-	5	ns

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Electrical Characteristic Curves

Fig. 1 I_F - V_F

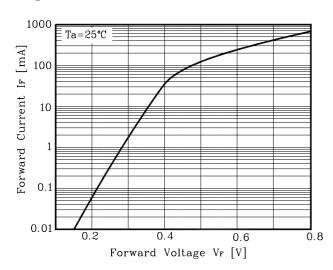


Fig. 2 I_R - V_R

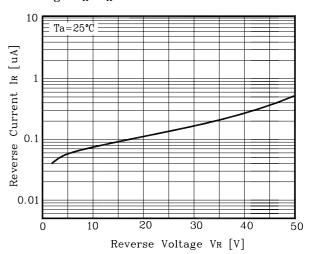
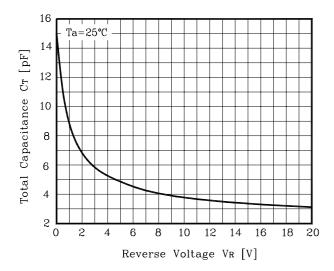


Fig. 3 C_T - V_R



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