DB27314

Silicon epitaxial planar type

For high speed switching circuits DB2S314 in SSSMini2 type package

Features

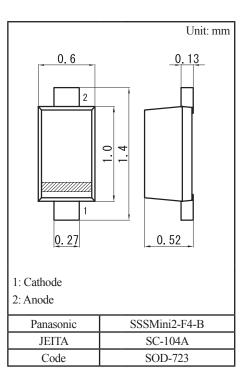
- \bullet Short reverse recovery time $t_{\rm rr}$
- Small reverse current I_R
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: C6

Packaging

DB2731400L Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

Symbol	Rating	Unit						
V _R	30	V						
V _{RM}	30	V						
$I_{\rm F}$	30	mA						
I _{FM}	150	mA						
Tj	125	°C						
T _{opr}	-40 to +85	°C						
T _{stg}	-55 to +125	°C						
	V_R V_{RM} I_F I_{FM} T_j T_{opr}	$\begin{tabular}{ c c c c c } \hline V_R & 30 \\ \hline V_{RM} & 30 \\ \hline I_F & 30 \\ \hline I_{FM} & 150 \\ \hline T_j & 125 \\ \hline T_{opr} & -40 \text{ to } +85 \\ \hline \end{tabular}$						





Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

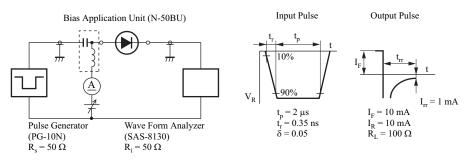
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _{F1}	$I_F = 1 \text{ mA}$			0.4	- V
	V _{F2}	$I_F = 30 \text{ mA}$			1.0	
Reverse current	I _R	$V_R = 30 V$			300	nA
Terminal capacitance	Ct	$V_{R} = 10 V, f = 1 MHz$		1.5		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$		1.0		ns

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

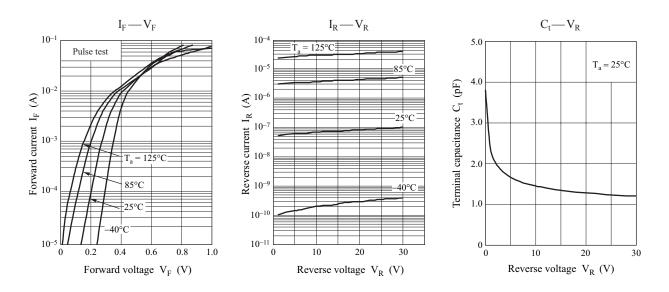
2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.

3. Absolute frequency of input and output is 2 GHz

*1: t_{rr} measurement circuit



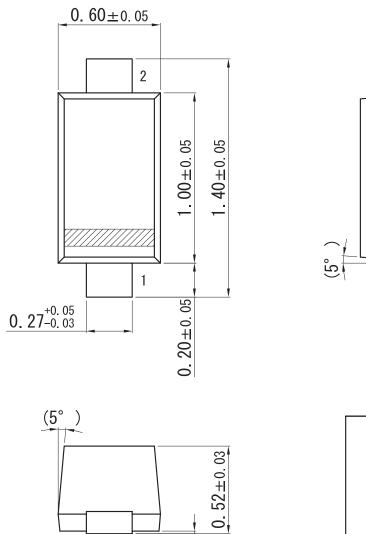
Publication date: April 2013



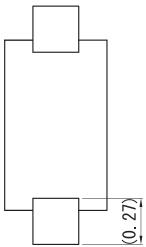
Unit: mm

0.13^{+0.05}

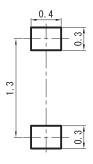




0 to 0.05



Land Pattern (Reference) (Unit: mm)



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