DB5S308K

Silicon epitaxial planar type

For high speed switching circuits

■ Features

- Short reverse recovery time t_{rr}
- Low forward voltage V_F
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)

■ Marking Symbol: 3A

■ Basic Part Number

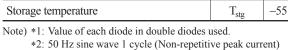
Dual DB2S308 (Parallel)

Packaging

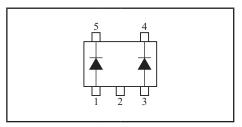
DB5S308K0R Embossed type (Thermo-compression sealing): 8 000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Symbol Rating	
Reverse voltage		V _R	30	V
Repetitive peak reverse voltage		V _{RRM}	30	V
Forward current (Average)	Single	т	100	mA
	Double *1	$I_{F(AV)}$	75	mA
Peak forward current	Single	T	300	mA
	Double *1	I_{FM}	225	mA
Non-repetitive peak forward	Single	T	1	A
surge current *2	Double *1	I _{FSM}	0.75	A
Junction temperature		T_j	125	°C
Operating ambient temperature		T _{opr}	-40 to +85	°C
Storage temperature		T _{stg}	-55 to +125	°C



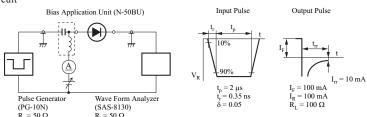
Unit: mm 1.6 0.2 0.13 9 (0.6)(0.5)(0.5)1.0 1: Anode-1 4: Cathode-2 2: N.C. 5: Cathode-1 3: Anode-2 SSMini5-F4-B Panasonic SC-107BB **JEITA** Code SOT-665

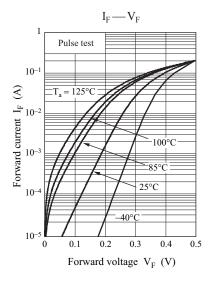


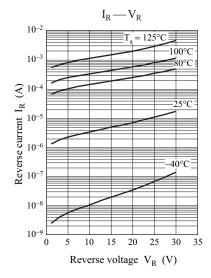
■ Electrical Characteristics $T_a = 25$ °C±3°C

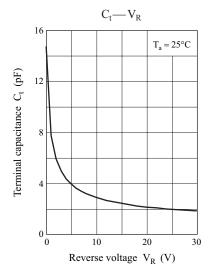
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F1}	$I_F = 10 \text{ mA}$			0.29	V
	V_{F2}	$I_F = 100 \text{ mA}$			0.42	
Reverse current	I_{R1}	$V_R = 10 V$			25	μΑ
	I _{R2}	$V_R = 30 \text{ V}$			120	
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		2.9		pF
Reverse recovery time *1	t _{rr}	$I_F = I_R = 100 \text{ mA}, I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$		1.3		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 250 MHz
 - 4. *1: t_{rr} measurement circuit





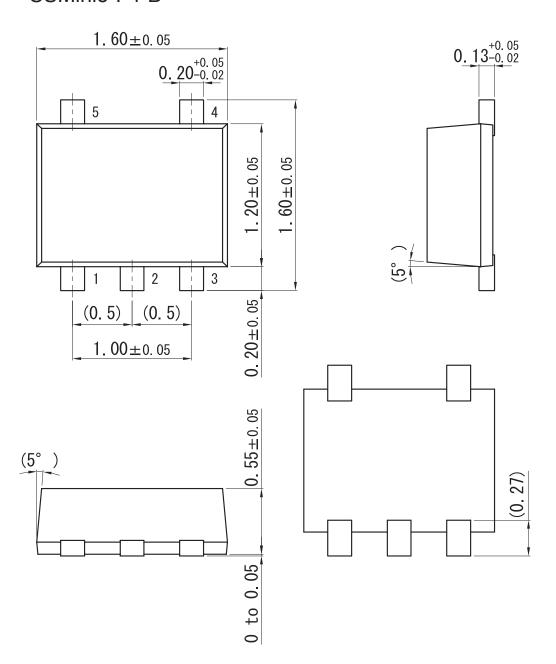




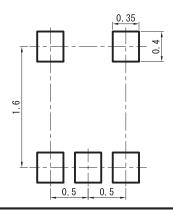
Ver. EED 2

SSMini5-F4-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)



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