DB24417

Silicon epitaxial planar type

For rectification

■ Features

- ullet Low forward voltage V_F
- Forward current (Average) $I_{F(AV)} = 5$ A rectification is possible
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

Packaging

DB2441700L Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	40	V	
Repetitive peak reverse voltage	V _{RRM}	40	V	
Forward current (Average) *1	I _{F(AV)}	5.0	A	
Non-repetitive peak forward surge current *2	I _{FSM}	50	A	
Junction temperature	T _j	125	°C	
Storage temperature	T _{stg}	-40 to +125	°C	

Note) *1: Mounted on an alumina PC board (Board: 50 mm × 50 mm)

■ Package

Code

TMiniP2-F2-B

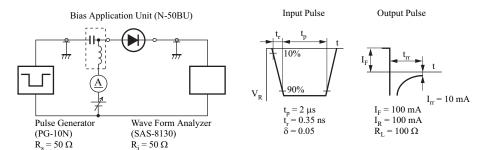
Package dimension clicks here. \rightarrow

- Pin Name
 - 1: Cathode
 - 2: Anode
- Marking Symbol: 4W

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

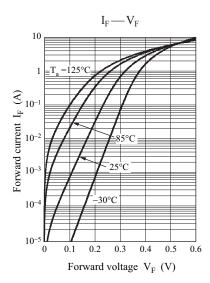
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V_{F}	$I_F = 5.0 \text{ A}$		0.47	0.54	V
Reverse current	I_R	$V_R = 40 V$		60	300	μΑ
Terminal capacitance	C _t	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		95		pF
Reverse recovery time *	t _{rr}	$\begin{aligned} I_F &= I_R = 100 \text{ mA}, \ I_{rr} = 10 \text{ mA}, \\ R_L &= 100 \ \Omega \end{aligned}$		30		ns

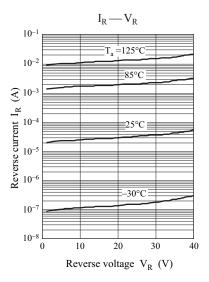
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. *: t_{rr} measurement circuit

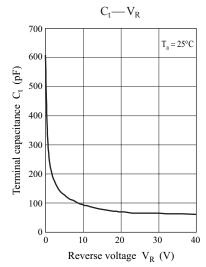


^{*2: 50} Hz sine wave 1 cycle (Non-repetitive peak current)

DB24417 Panasonic







2 Ver. CED

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