

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DZ2J180

Silicon epitaxial planar type

For constant voltage / waveform clipper and surge absorption circuit Low noise type

■ Features

- Excellent rising characteristics of zener current Iz
- Eco-friendly Halogen-free package

■ Packaging

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

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Symbol Rating		
Repetitive peak forward current	I_{FRM}	200	mA	
Total power dissipation *	P_{T}	200	mW	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Note) *: P_T = 200 mW achieved with a printed circuit board.

■ Package

- Code
- SMini2-F5-B
- Pin Name
 - 1. Cathode
 - 2. Anode

■ Marking Symbol: YJ, YU

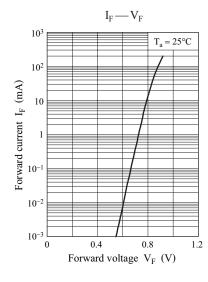
■ Common Electrical Characteristics $T_a = 25$ °C±3°C

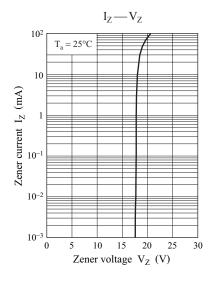
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	$I_F = 10 \text{ mA}$			1.0	V
Zener voltage *1,2,4	V _Z	$I_Z = 5 \text{ mA}$	17.10		18.90	V
Zener operating resistance	R_Z	$I_Z = 5 \text{ mA}$			60	Ω
Zener rise operating resistance	R _{ZK}	$I_Z = 0.5 \text{ mA}$			80	Ω
Reverse current	I_R	$V_R = 13 \text{ V}$			0.05	μΑ
Temperature coefficient of zener voltage *3	Sz	$I_Z = 5 \text{ mA}$		17.2		mV/°C

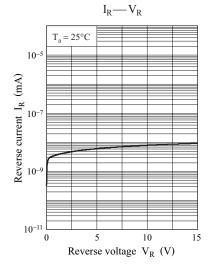
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. Absolute frequency of input and output is 5 MHz.
 - 3. *1: The temperature must be controlled 25°C for V_Z measurement. V_Z value measured at other temperature must be adjusted to V_Z (25°C)
 - $*2: V_Z$ guaranteed 20 ms after current flow.
 - *3: $T_j = 25^{\circ}C$ to $150^{\circ}C$
 - *4: Rank classification

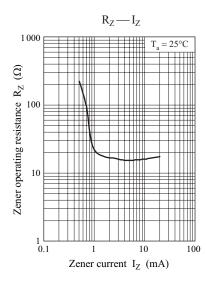
Code	M	0
Rank	М	No-rank
V_Z	17.55 to 18.45	17.10 to 18.90
Marking Symbol	YU	YJ

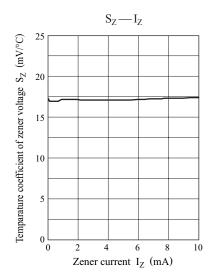
DZ2J180 Panasonic

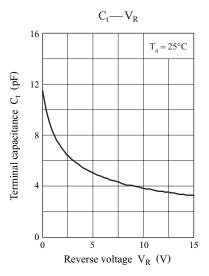








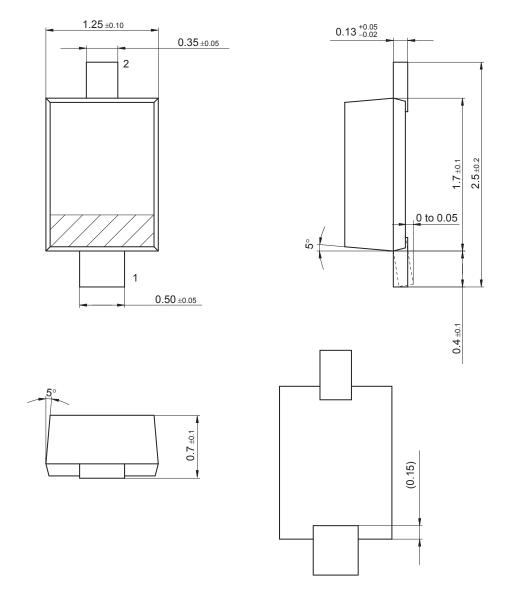




2 ZKE00090BED

SMini2-F5-B

Unit: mm



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