

# DAP236U

## High speed switching

- 1) Ultra small mold type. (UMD3)
- 2) High reliability.

## Silicon epitaxial planar

The drawing shows the mechanical specifications for the JEDEC SOT-323 package. The top view (left) includes dimensions for the overall width ( $2.0 \pm 0.2$ ), lead width ( $0.3 \pm 0.1$ ), and a note stating 'Each lead has same dimension'. The body width is  $1.25 \pm 0.1$ . The bottom view shows the lead spacing ( $1.3 \pm 0.1$ ) and individual lead widths ( $0.65$ ). The side view (right) shows the maximum height ( $0.15 \pm 0.05$ ), a flatness tolerance ( $0 \sim 0.1$ ), and the thickness ( $0.1 \text{ mm}$ ). The base thickness is  $0.7 \pm 0$  and the overall thickness is  $0.9 \pm 0.1$ .

UMD3

Technical drawing of a mechanical part, showing a top view and a side view. The top view includes dimensions for hole positions and diameters. The side view shows the profile of the part.

**Top View Dimensions:**

- Horizontal dimensions:  $4.0 \pm 0.1$ ,  $2.0 \pm 0.05$ ,  $4.0 \pm 0.1$ ,  $2.25 \pm 0.1$ ,  $0$ .
- Vertical dimensions:  $0 \sim 0.1$ ,  $5.5 \pm 0.2$ ,  $2.4 \pm 0.1$ ,  $3.5 \pm 0.05$ ,  $1.75 \pm 0.1$ ,  $8.0 \pm 0.2$ .
- Hole diameters:  $\phi 1.55 \pm 0.05$ ,  $\phi 0.5 \pm 0.05$ .

**Side View Dimensions:**

- Top flange thickness:  $0.3 \pm 0.1$ .
- Overall height:  $2.4 \pm 0.1$ .
- Bottom flange thickness:  $1.25 \pm 0.1$ .

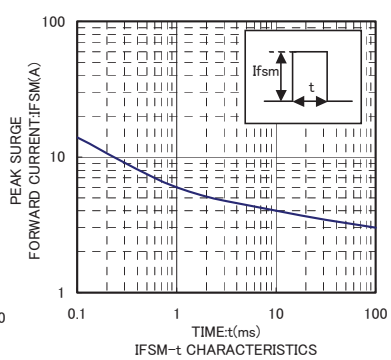
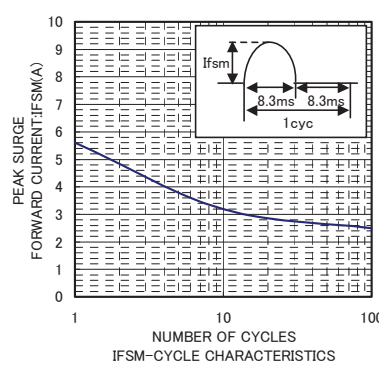
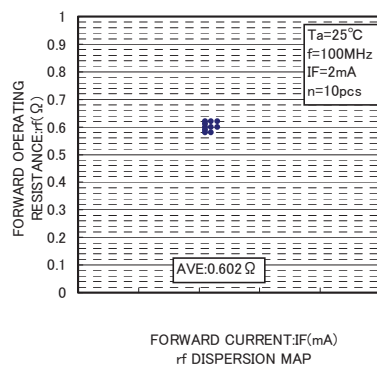
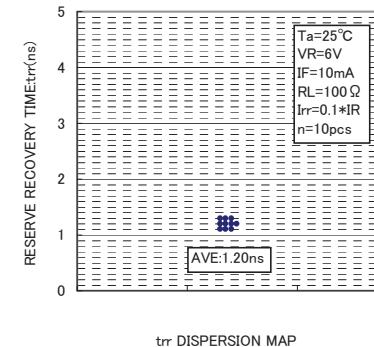
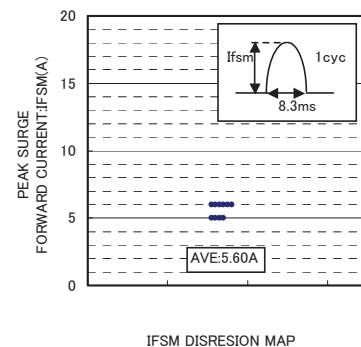
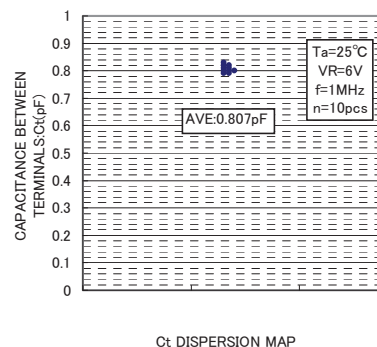
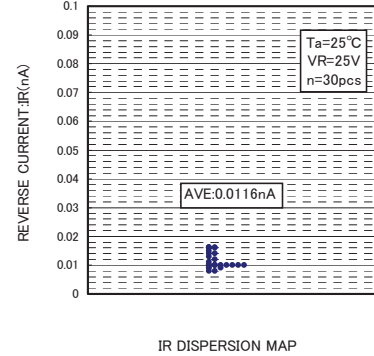
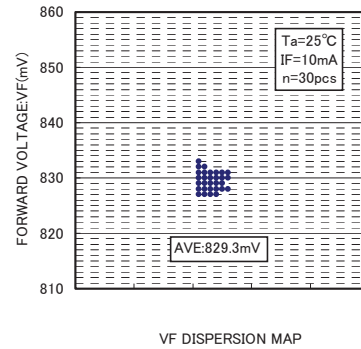
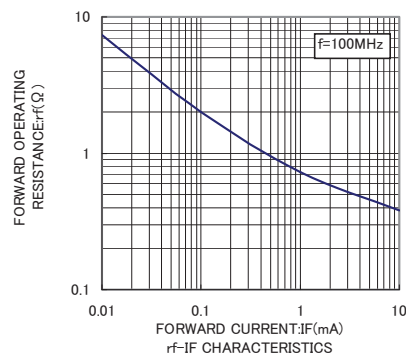
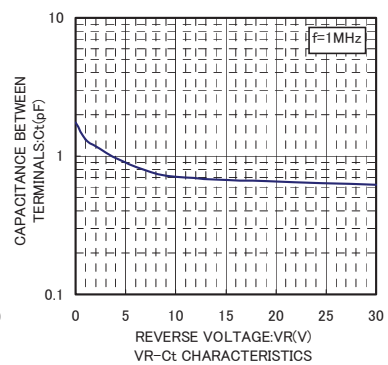
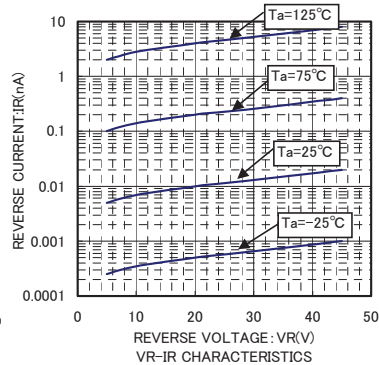
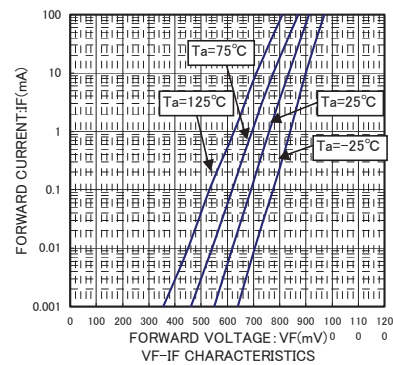
Parameter	Symbol	Limits	Unit
Power dissipation	Pd	150	mW
Reverse voltage (DC)	V <sub>R</sub>	35	V
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.0	V	$I_F=10\text{mA}$
Reverse current	$I_R$	-	-	10	nA	$V_R=25\text{V}$
Capacitance between terminal	$C_t$	-	-	1.2	pF	$V_R=6\text{V}$ , $f=1\text{MHz}$
Forward operating resistance	$r_f$	-	-	0.9	$\Omega$	$I_F=2\text{mA}$ , $f=100\text{MHz}$

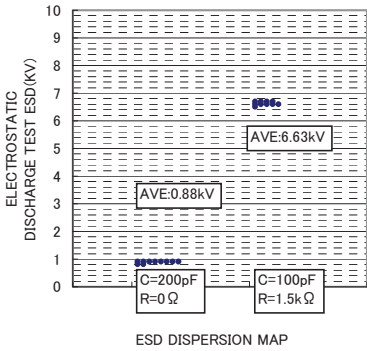
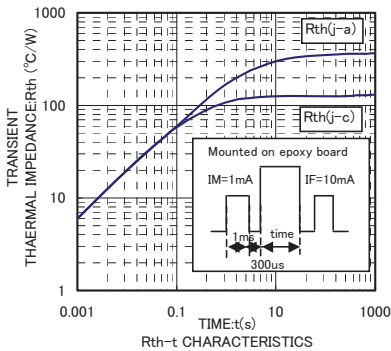


## Diodes

## ●Electrical characteristic curves (Ta=25°C)









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