

# DAN235E

## High speed switching

- 1) Ultra small mold type. (EMD3)
- 2) High reliability.

## Silicon epitaxial planar

The drawing shows the mechanical specifications for the SC-75A package. The top view (left) shows a rectangular package with a central square pad (1) and four corner pads (2). Dimensions include a total width of  $1.6 \pm 0.2$ , a central pad width of  $0.3 \pm 0.1$  with a  $0.05$  offset, and a distance of  $0.8 \pm 0.1$  from the center to the edge. Pad dimensions are  $0.2 \pm 0.1$  by  $0.05$ . The side view (right) shows a package height of  $0.15 \pm 0.05$ , a shoulder width of  $0 \sim 0.1$ , and a base width of  $0.55 \pm 0.1$  and  $0.7 \pm 0.1$ . A note indicates that dimensions in parentheses are for year-week factory production.

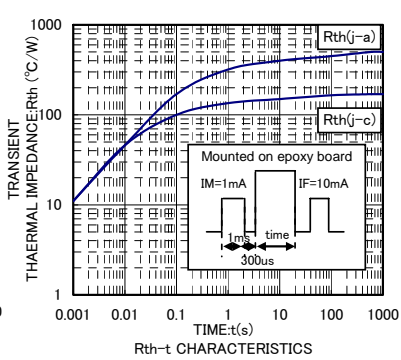
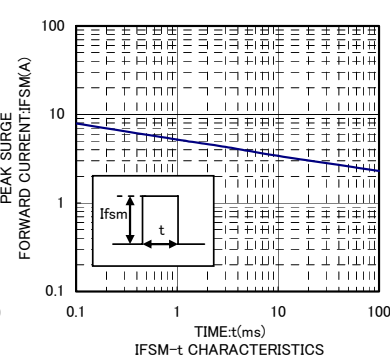
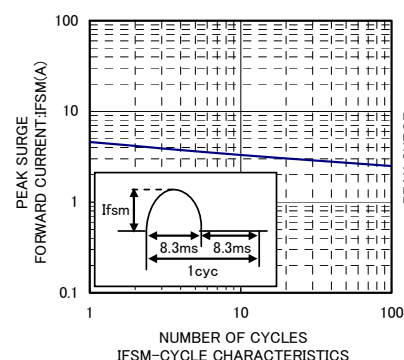
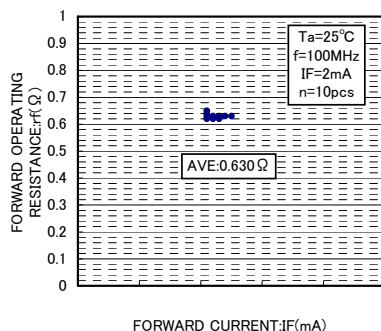
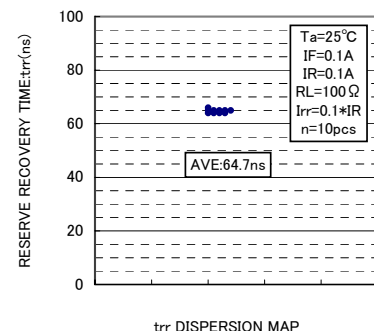
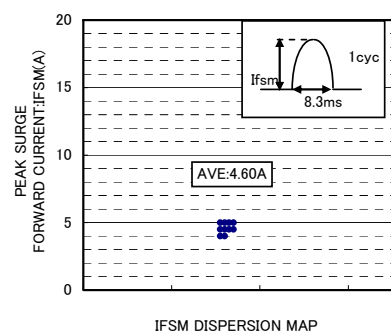
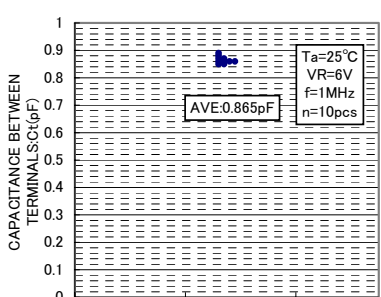
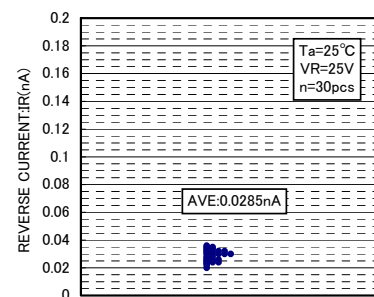
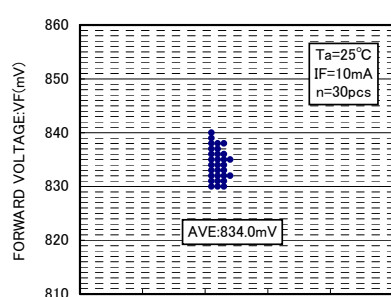
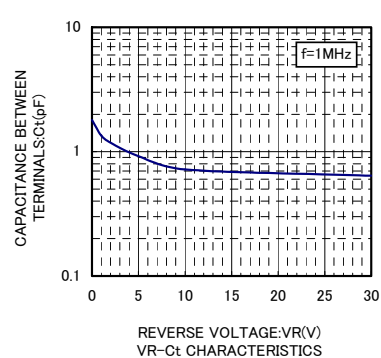
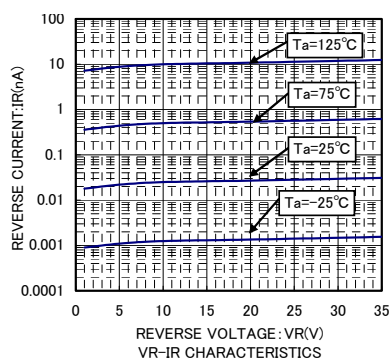
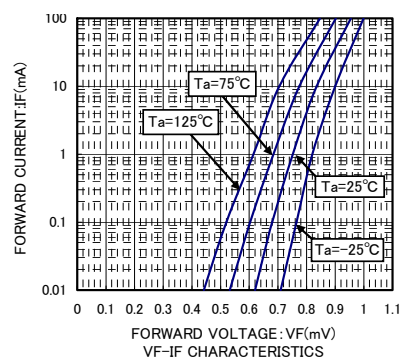
Technical drawing of a 100mm wide, 10mm high extruded aluminum profile. The drawing includes a side view and a cross-sectional view. The side view shows a profile with a top flange of 10.0 ± 0.2 mm, a bottom flange of 0.9 ± 0.1 mm, and a central web of 1.8 ± 0.1 mm. The cross-sectional view shows a profile with a top flange of 10.0 ± 0.2 mm, a bottom flange of 0.9 ± 0.1 mm, and a central web of 1.8 ± 0.1 mm. The drawing also includes dimensions for the top flange width (10.0 ± 0.2 mm), the bottom flange width (0.9 ± 0.1 mm), and the central web width (1.8 ± 0.1 mm). The drawing is labeled '100mm' and '10mm'.

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

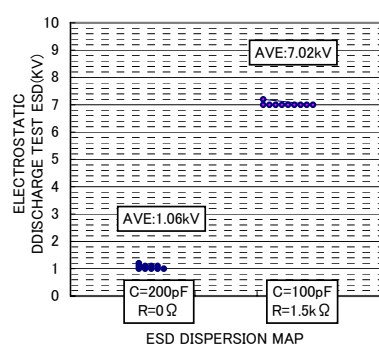
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward current	$I_F$	-	-	1.0	V	$I_F=10\text{mA}$
Reverse current	$I_R$	-	-	10	nA	$V_R=25\text{V}$
Capacitance between terminals	Ct	-	-	1.2	pF	$V_R=6\text{V}$ , $f=1\text{MHz}$
Forward operating resistance	$r_f$	-	-	0.9	$\Omega$	$I_F=2\text{mA}$ , $f=100\text{MHz}$

## Diodes

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



## Diodes



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