

DAN217U

Ultra high speed switching

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

Silicon epitaxial planar

Mechanical drawing of the UMD3 package showing top and side views with dimensions.

Top View Dimensions:

- Overall width: 2.0 ± 0.2
- Lead width: 0.3 ± 0.1
- Distance from lead center to package edge: 1.26 ± 0.1
- Distance from lead center to package edge (alternative): 1.3 ± 0.1
- Distance from lead center to package edge (alternative): 0.65
- Distance from lead center to package edge (alternative): 0.7 ± 0.1
- Distance from lead center to package edge (alternative): 0.9 ± 0.1
- Distance from lead center to package edge (alternative): 0.15 ± 0.05

Side View Dimensions:

- Package height: 2.1 ± 0.1
- Lead height: 0.7 ± 0.1
- Lead thickness: 0.15 ± 0.05
- Lead width: 0.3 ± 0.1
- Lead thickness: 0.15 ± 0.05

Notes:

- Each lead has same dimension
- (1) Dimension from lead center to package edge
- (2) Dimension from lead center to package edge
- (3) Dimension from lead center to package edge

Markings:

- Top view: A7
- Side view: 0.15 ± 0.05

Legend:

- ROHM : UMD3
- JEDEC : SOT-323
- JEITA : SC-70
- dot (year week factory)

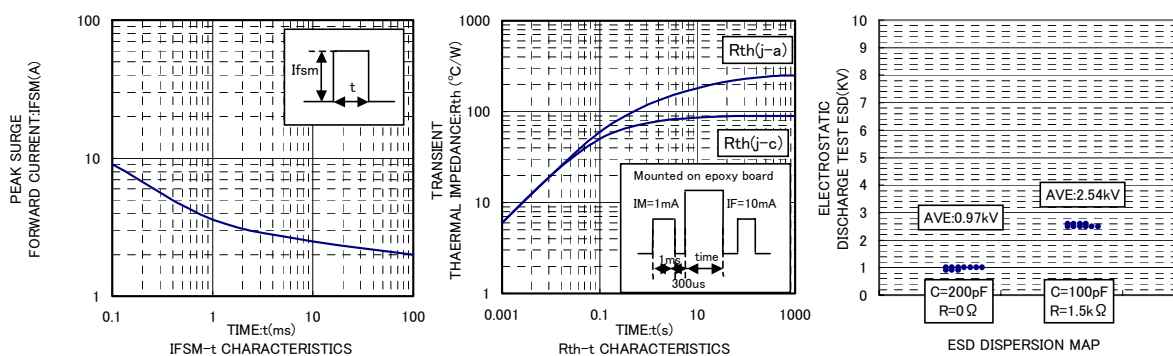
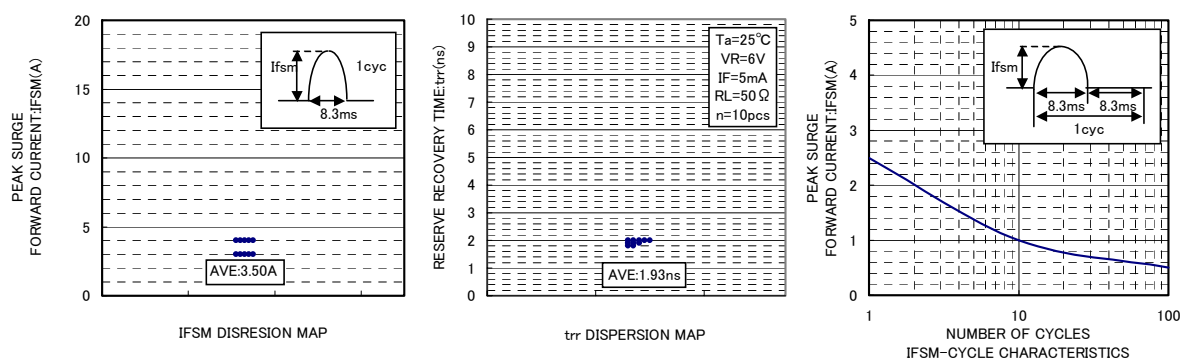
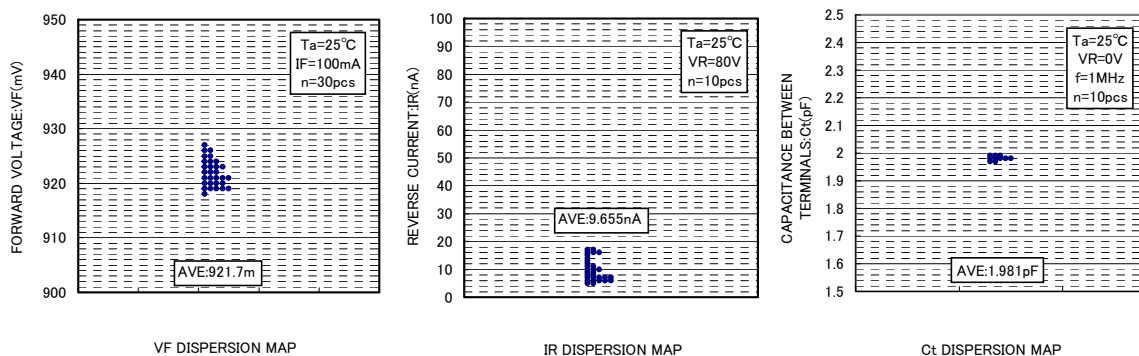
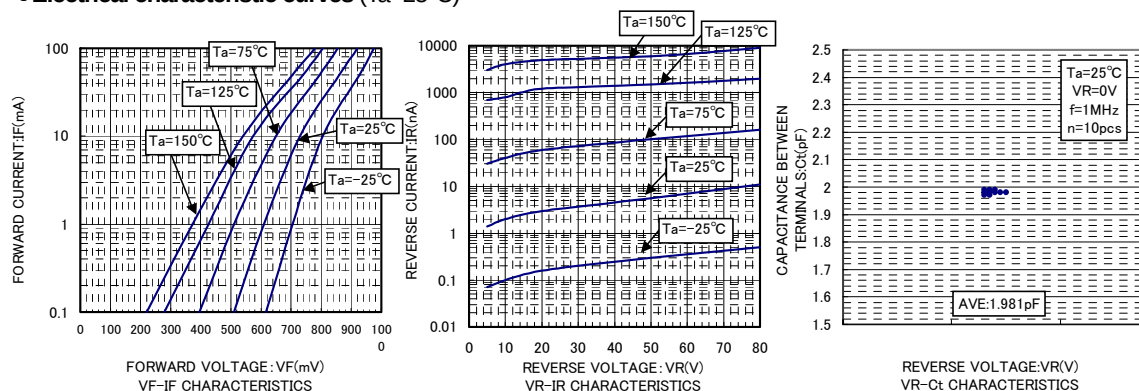
Technical drawing of a mechanical part, showing a side view and a cross-section view. The side view includes dimensions: 4.0 ± 0.1, 2.0 ± 0.05, 2.25 ± 0.1, 4.0 ± 0.1, 2.4 ± 0.1, 5.5 ± 0.2, 3.5 ± 0.05, 1.75 ± 0.1, 8.0 ± 0.2, 0.3 ± 0.1, 2.4 ± 0.1, 1.25 ± 0.1, 0.5 ± 0.05, 1.55 ± 0.05, and 0.5 ± 0.05. The cross-section view shows a rectangular profile with a central hole and a flange.

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward current (Single)	I_{FM}	300	mA
Average rectified forward current (Single)	I_o	100	mA
Surge current (t=1us)	I_{surge}	4	A
Power dissipation	P_d	200	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{sta}	-55 to +150	°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.2	V	$I_F=100\text{mA}$
Reverse current	I_R	-	-	0.2	μA	$V_R=70\text{V}$
Capacitance between terminals	C_t	-	-	3.5	pF	$V_R=6\text{V}$, $f=1\text{MHz}$
Reverse recovery time	t_{rr}	-	-	4	ns	$V_R=6\text{V}$, $I_F=5\text{mA}$, $R_L=50\Omega$

Diodes

●Electrical characteristic curves (Ta=25°C)



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