

UMZ8.2T

Silicon epitaxial planar

The drawing shows the mechanical specifications for the JEITA SC-70 package. The top view (left) shows a rectangular package with a central rectangular area labeled '6R'. Dimensions include a total width of 2.0 ± 0.2 , a lead width of 0.3 ± 0.1 , and a lead pitch of 1.3 ± 0.1 . The lead height is 2.1 ± 0.1 . The side view (right) shows the package profile with a maximum height of 0.15 ± 0.05 and a lead height of 0.9 ± 0.1 . The lead thickness is 0.1 mm . The drawing also includes a note: 'Each lead has same dimension'.

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

UMD3

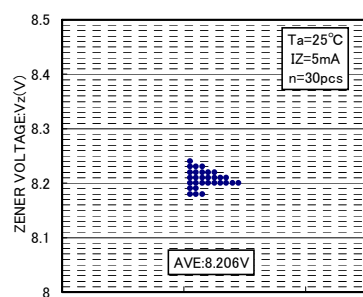
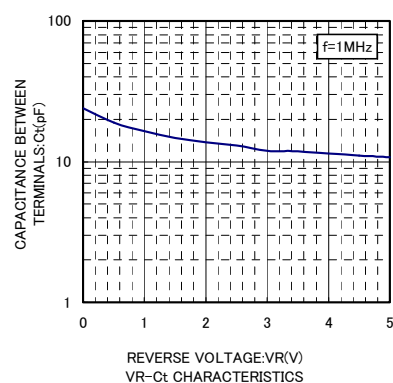
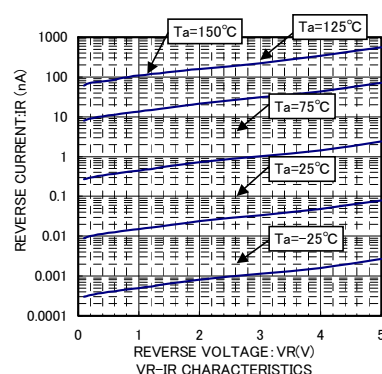
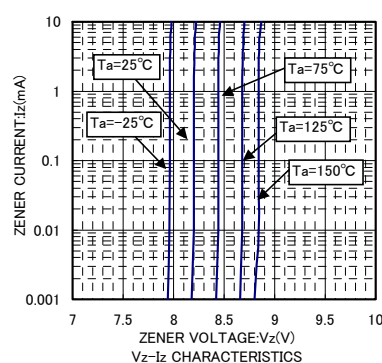
Technical drawing of a mechanical part, showing a side view and a cross-section. The side view includes dimensions: 4.0 ± 0.1, 2.0 ± 0.05, 1.79 ± 0.1, 3.3 ± 0.05, 2.1 ± 0.1, 5.5 ± 0.2, 8.0 ± 0.2, 2.25 ± 0.1, 4.0 ± 0.1, 0 ± 0.1, and 1.25 ± 0.1. The cross-section shows a diameter of 1.55 ± 0.05 and a hole diameter of 0.5 ± 0.05. The part has a total length of 8.0 ± 0.2 and a total width of 1.25 ± 0.1.

Parameter	Symbol	Limits	Unit
Power dissipation (*1)	P	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

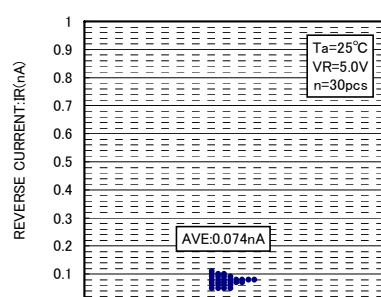
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_Z	7.76	-	8.64	V	$I_Z=5mA$
Reverse current	I_R	-	-	0.50	μA	$V_R=5V$
Operating resistance	Z_Z	-	-	30	Ω	$I_Z=5mA$
Rising operating resistance	Z_{Zk}	-	-	60	Ω	$I_Z=0.5mA$

Diodes

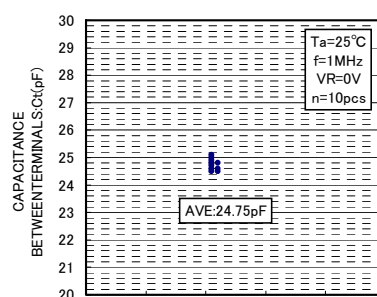
●Electrical characteristic curves (Ta=25°C)



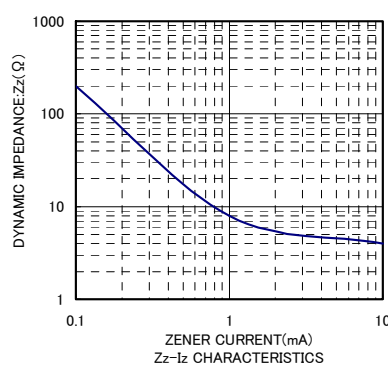
V_z DISRESION MAP



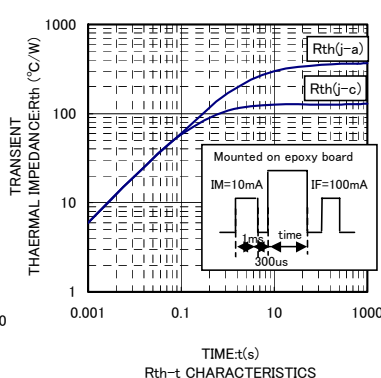
I_R DISRESION MAP



C_t DISRESION MAP



Z_z - I_z CHARACTERISTICS



R_{th-t} CHARACTERISTICS

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