# **ESD** Protection diode

# RSA6.1EN

# Application

**ESD** Protection

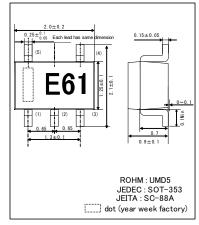
#### ● Features

- 1) Small mold type. (UMD5)
- 2) High reliability.

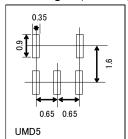
#### ●Construction

Silicon epitaxial planar

#### ●External dimensions (Unit : mm)



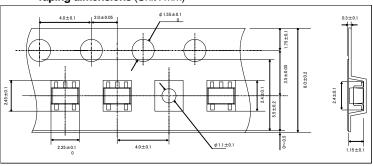
# ●Lead size figure (Unit : mm)



Structure



#### ●Taping dimensions (Unit: mm)



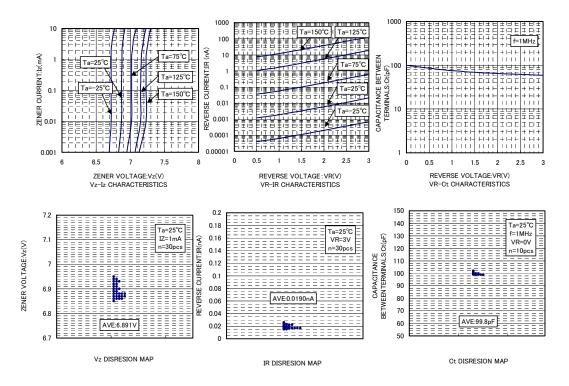
# ●Absolute maximum ratings (Ta=25°C)

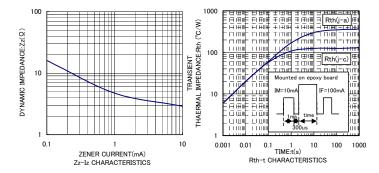
Parameter	Symbol	Limits	Unit
Power dissipation	Р	200	mW
Peak Pulse Power-1(tp=10×1000us)	$P_{pk}$	30	W
Peak Pulse Power-2(tp=8×20us)	$P_{pk}$	200	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Zener voltage	$V_Z$	6.1	-	7.20	V	I <sub>Z</sub> =1mA
Reverse current	I <sub>R</sub>	-	-	1.0	μA	V <sub>R</sub> =3.0V
Forward voltage	$V_{F}$	-	-	1.25	V	I <sub>F</sub> =200mA
Capacitance between terminals	Ct	-	90	-	pF	f=1MHz,V <sub>R</sub> =0V

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





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Appendix1-Rev1.1