

ESD Protection diode

RSA 6.1EN

●Application

Noise suppression on signal line

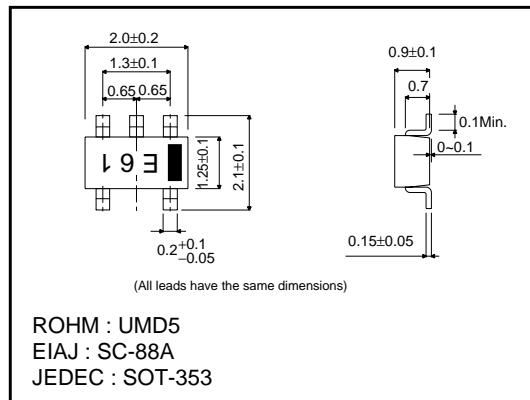
●Features

- 1) Small surface mounting type. (UMD5)
- 2) Multiple diodes with common anode configuration.
- 3) High reliability.

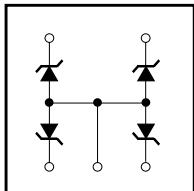
●Construction

Silicon epitaxial planar

●External dimensions (Units : mm)



●Circuit



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak Pulse Power-1 (tp=10×1000μs)	Ppk	30	W
Peak Pulse Power-2 (tp=8×20μs)	Ppk	200	W
Power Dissipation	P	200	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~+150	°C

●Electrical characteristics (Ta=25°C) * Rating of per diode.

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V _z	6.10	—	7.20	V	I _z =1mA
Reverse current	I _R	—	—	1	μA	V _R =3.0V
Forward current	V _F	—	—	1.25	V	I _F =200mA
Junction capacitance	C _t	—	90	—	pF	V _R =0V, f=1MHz

* Zener voltage (V_z) shall be measured at 40ms after loading current.

Diodes

● Others

Item	IEC-61000-4-2	
Equipment composition	Charge discharge capacitance : 150pF	Discharge resistance : 330Ω
Criterion	Repeat by 10 times No erroneous operation Contact : ±9kV In air : ±16kV	

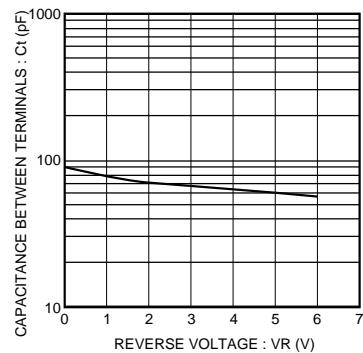
● Electrical characteristic curves ($T_a=25^\circ\text{C}$)

Fig.1 Capacitance Between Terminals Characteristics

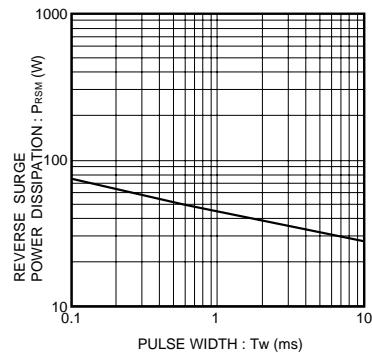


Fig.2 Surge Power Dissipation