

# Switching diode

## 1SS376

### ●Applications

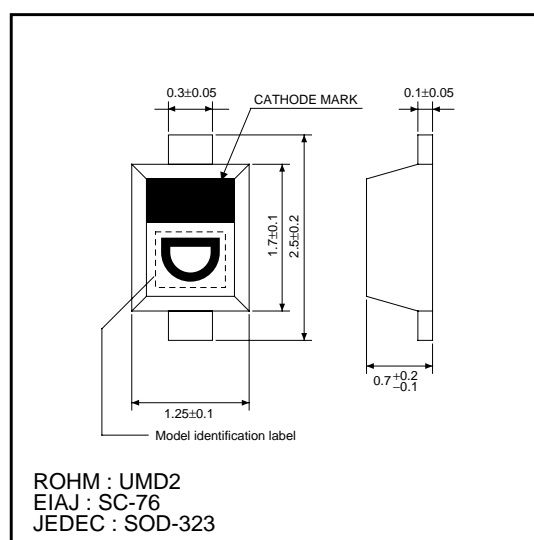
High voltage switching

### ●Features

- 1) Small surface mounting type. (UMD2)
- 2)  $V_{RM}=300V$  guaranteed.
- 3) High reliability.

### ●Construction

Silicon epitaxial planar



### ●External dimensions (Units : mm)

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

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	300	V
DC reverse voltage	$V_R$	250	V
Peak forward current	$I_{FM}$	300	mA
Mean rectifying current	$I_o$	100	mA
Surge current (10ms)	$I_{surge}$	2	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55~+125	°C

### ●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	0.2	$\mu A$	$V_R=250V$
Reverse current	$I_R$	-	-	100	$\mu A$	$V_R=300V$
Capacitance between terminals	$C_T$	-	-	3	pF	$V_R=0V, f=1MHz$
Reverse recovery time	$t_{rr}$	-	-	100	ns	$I_R=30mA, I_F=30mA, I_{rr}=3mA$

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●Electrical characteristic curves (Ta = 25°C)

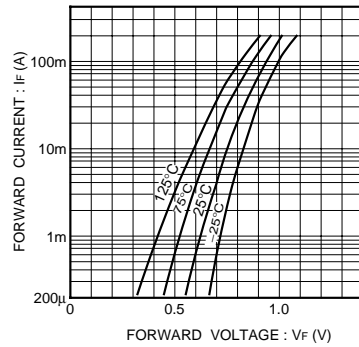


Fig.1 Forward characteristics

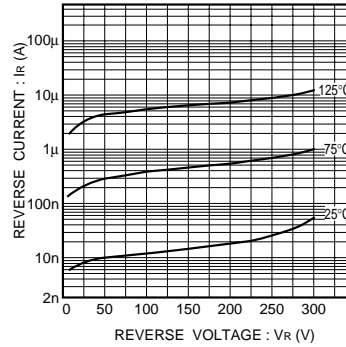


Fig.2 Reverse characteristics

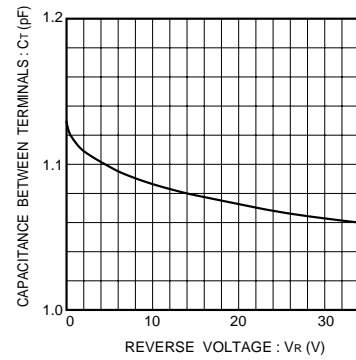


Fig.3 Capacitance between terminals characteristics

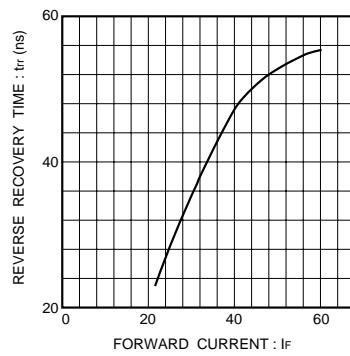


Fig.4 Reverse recovery time characteristics

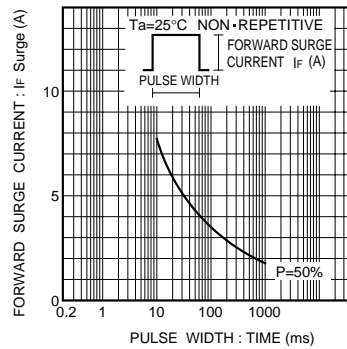


Fig.5 Surge current characteristics

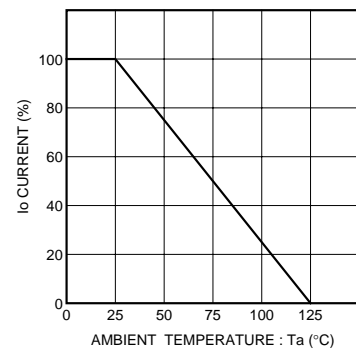


Fig.6 Derating curve (mounting on glass epoxy PCBs)

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