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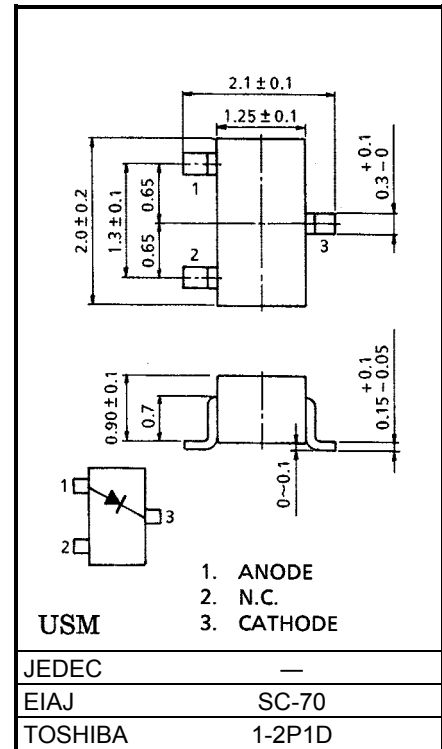
High Voltage, High Speed Switching Applications

Unit: mm

- Low forward voltage : $V_F = 1.0V$ (typ.)
- High voltage : $V_R = 400V$ (min.)
- Fast reverse recovery time: $t_{rr} = 0.5\mu s$ (typ.)
- Small total capacitance : $C_T = 2.5pF$ (typ.)
- Small package : SC-70

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	420	V
Reverse voltage	V_R	400	V
Maximum (peak) forward current	I_{FM}	300	mA
Average forward current	I_O	100	mA
Surge current (10ms)	I_{FSM}	2	A
Power dissipation	P	100	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C



Weight: 0.006g

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F (1)	—	$I_F = 10mA$	—	0.8	—	V
	V_F (2)	—	$I_F = 100mA$	—	1.0	1.3	
Reverse current	I_R (1)	—	$V_R = 300V$	—	—	0.1	μA
	I_R (2)	—	$V_R = 400V$	—	—	1.0	
Total capacitance	C_T	—	$V_R = 0, f = 1MHz$	—	2.5	5.0	pF
Reverse recovery time	t_{rr}	—	$I_F = 10mA$ (Fig.1)	—	0.5	—	μs

Equivalent Circuit Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit(Top View)

