

1SS352

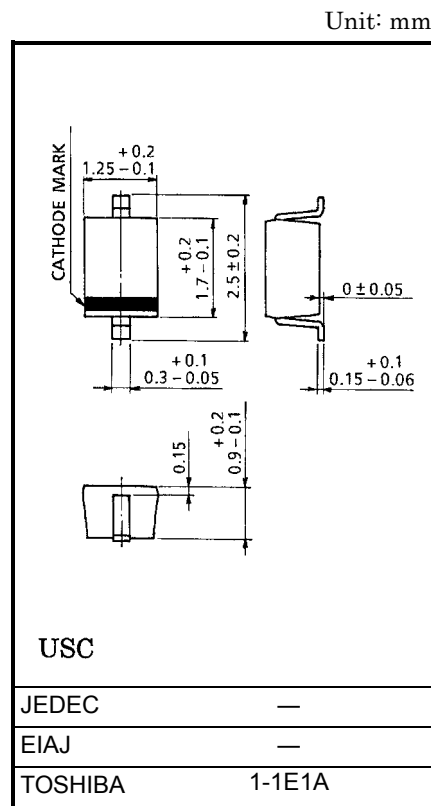
Ultra High Speed Switching Application

- Small package
- Low forward voltage : $V_F(3) = 0.98V$ (typ.)
- Fast reverse recovery time: $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance : $C_T = 0.5pF$ (typ.)

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Maximum (peak) forward current	I_{FM}	200	mA
Average forward current	I_O	100	mA
Surge current (10ms)	I_{FSM}	1	A
Power dissipation	P	200 (*)	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55~125	°C

(*) Mounted on a glass epoxy circuit board of $20 \times 20\text{mm}$, pad dimension of $4 \times 4\text{mm}$.



Weight: 0.004g

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F (1)	—	$I_F = 1\text{mA}$	—	0.62	—	V
	V_F (2)	—	$I_F = 10\text{mA}$	—	0.75	—	
	V_F (3)	—	$I_F = 100\text{mA}$	—	0.98	1.20	
Reverse current	I_R (1)	—	$V_R = 30\text{V}$	—	—	0.1	μA
	I_R (2)	—	$V_R = 80\text{V}$	—	—	0.5	
Total capacitance	C_T	—	$V_R = 0, f = 1\text{MHz}$	—	0.5	3.0	pF
Reverse recovery time	t_{rr}	—	$I_F = 10\text{mA}$, Fig.1	—	1.6	4.0	ns