

**1SS387**

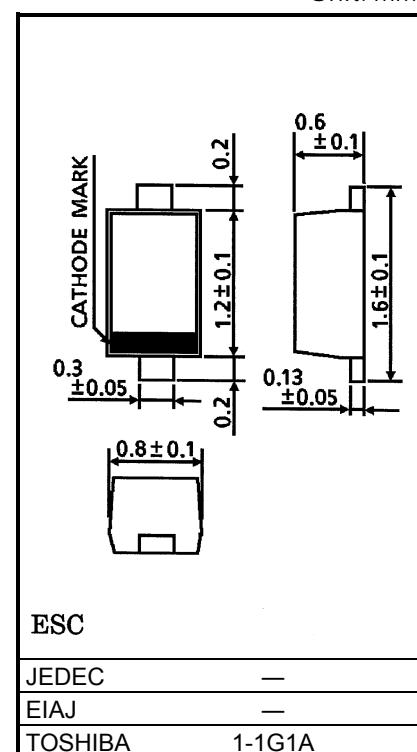
## Ultra High Speed Switching Application

- 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	150 *	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55~125	°C

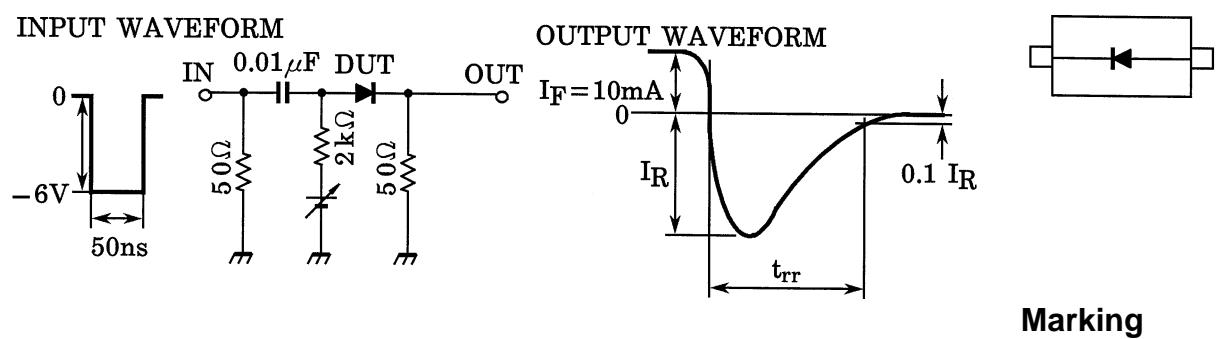
\* : Mounted on a glass epoxy circuit board of  $20 \times 20\text{mm}$ , pad dimension of  $4 \times 4\text{mm}$ .



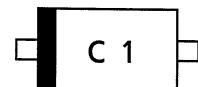
Weight: 1.4mg

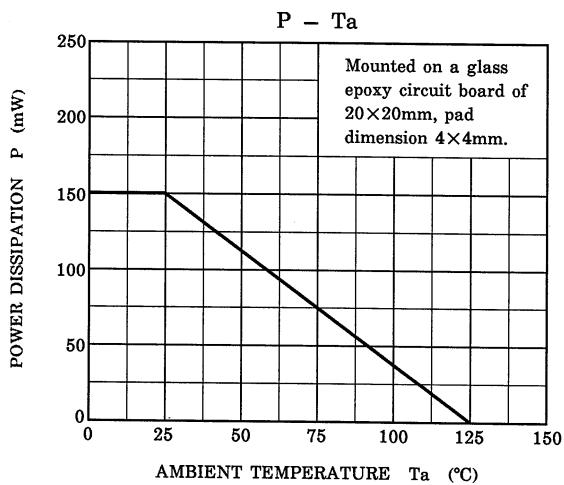
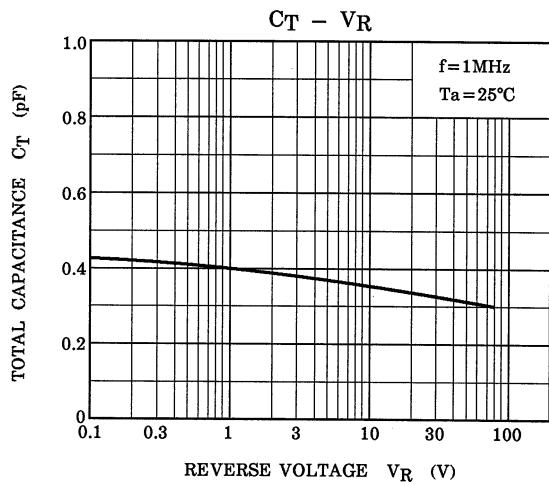
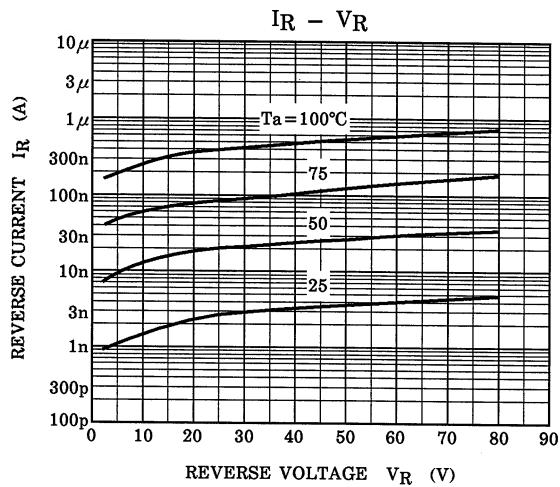
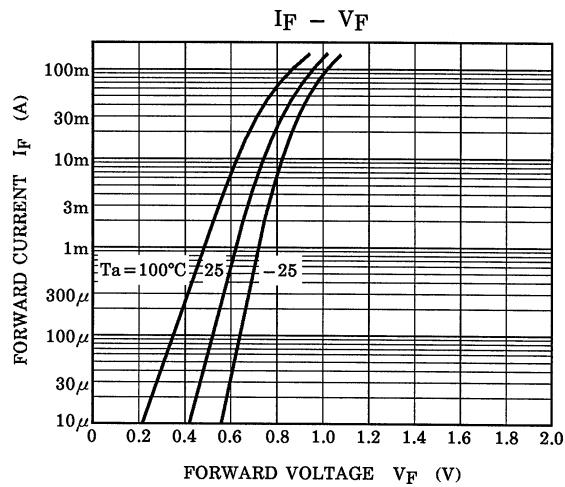
### Electrical Characteristics (Ta = 25°C)

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)	—	$I_F = 100\text{mA}$	—	0.97	1.20	
Reverse current	$I_R$ (1)	—	$V_R = 30\text{V}$	—	—	0.1	$\mu\text{A}$
	$I_R$ (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

Fig.1 Reverse Recovery Time ( $t_{rr}$ ) Test CircuitPin Assignment  
(Top View)

Marking





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