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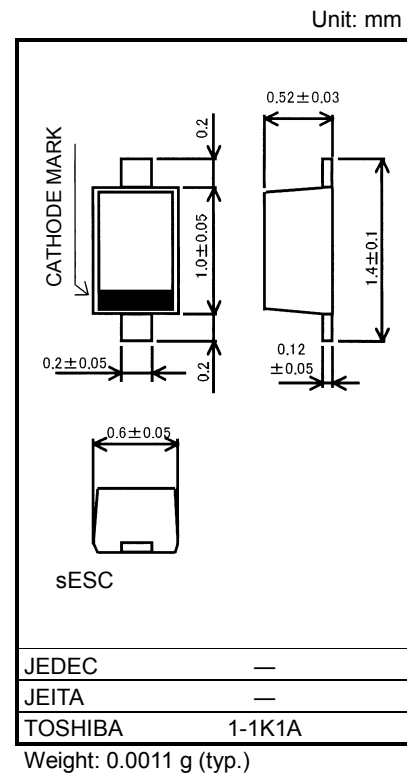
High-Speed Switching Applications

- Small package
- Low forward voltage: $V_F (3) = 0.56 \text{ V (typ.)}$
- Low reverse current: $I_R = 5 \text{ } \mu\text{A (max)}$

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	V_{RM}	45	V
Reverse voltage	V_R	40	V
Maximum (peak) forward current	I_{FM}	200	mA
Average forward current	I_O	100	mA
Surge current (10 ms)	I_{FSM}	1	A
Power dissipation	P^*	100	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~125	$^\circ\text{C}$
Operating temperature range	T_{opr}	-40~100	$^\circ\text{C}$

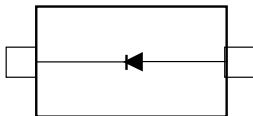
* Mounted on a glass-epoxy circuit board of $20 \times 20 \text{ mm}$, pad dimensions of $4 \times 4 \text{ mm}$.



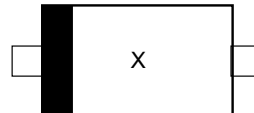
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

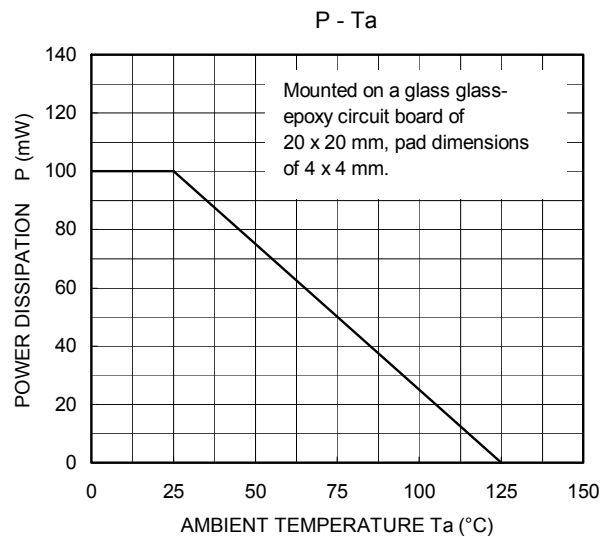
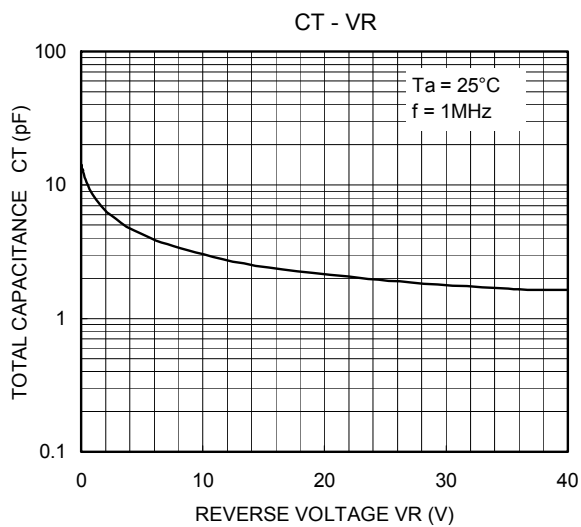
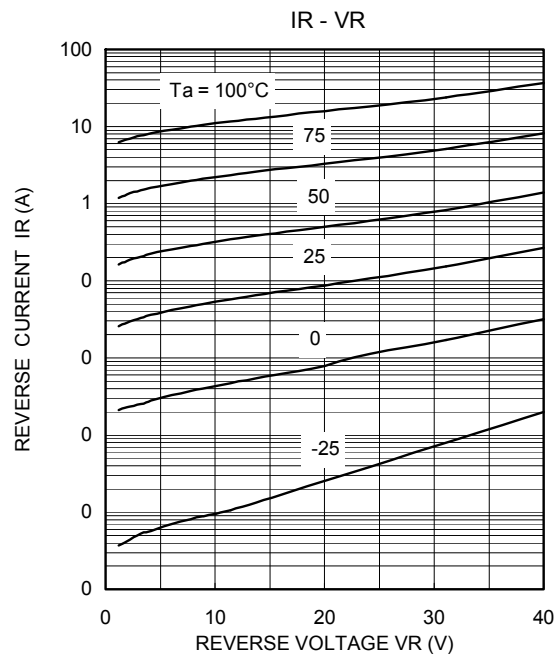
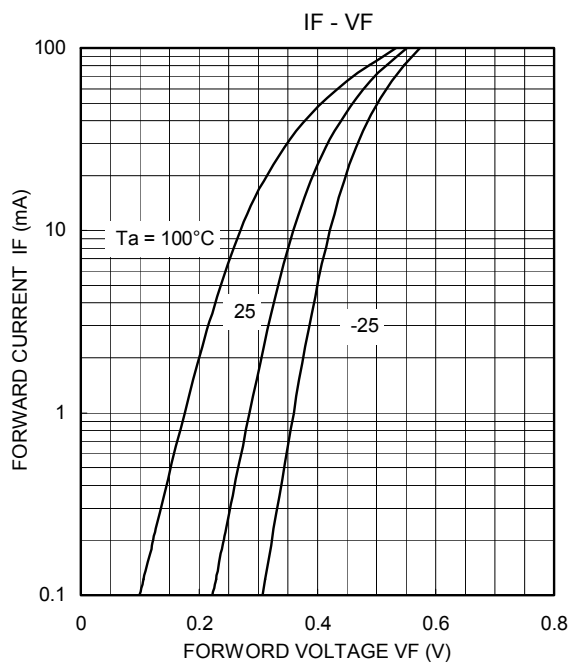
Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F (1)$	$I_F = 1 \text{ mA}$	—	0.28	—	V
	$V_F (2)$	$I_F = 10 \text{ mA}$	—	0.36	—	
	$V_F (3)$	$I_F = 50 \text{ mA}$	—	0.56	0.62	
Reverse current	I_R	$V_R = 40 \text{ V}$	—	—	5	μA
Total capacitance	C_T	$V_R = 0, f = 1 \text{ MHz}$	—	15	—	pF

Equivalent Circuit (Top View)



Marking





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