

## ● High Speed Switching Application

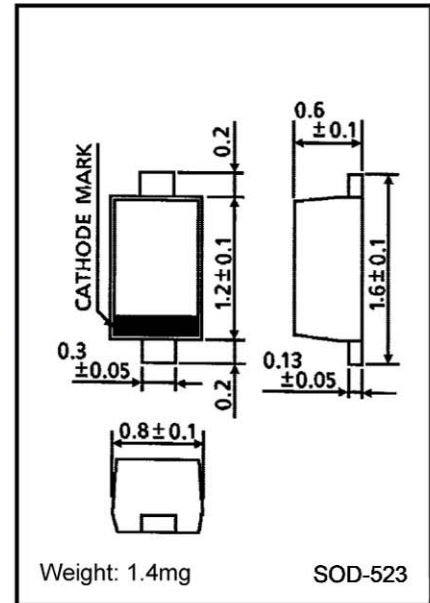
Small package

Low forward voltage:  $V_F(3) = 0.54V$  (typ.)

Low reverse current:  $I_R = 5\mu A$  (typ.)



Unit: mm



## ● Maximum Ratings ( $T_a = 25^\circ C$ )

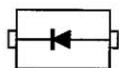
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	$V_{RM}$	45	V
Reverse voltage	$V_R$	40	V
Maximum (peak) forward current	$I_{FM}$	300	mA
Average forward current	$I_O$	100	mA
Surge current (10ms)	$I_{FSM}$	1	A
Power dissipation	$P^*$	150	mW
Junction temperature	$T_j$	125	$^\circ C$
Storage temperature range	$T_{stg}$	-55~125	$^\circ C$
Operating temperature range	$T_{opr}$	-40~100	$^\circ C$

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

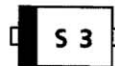
## ● Electrical Characteristics ( $T_a = 25^\circ C$ )

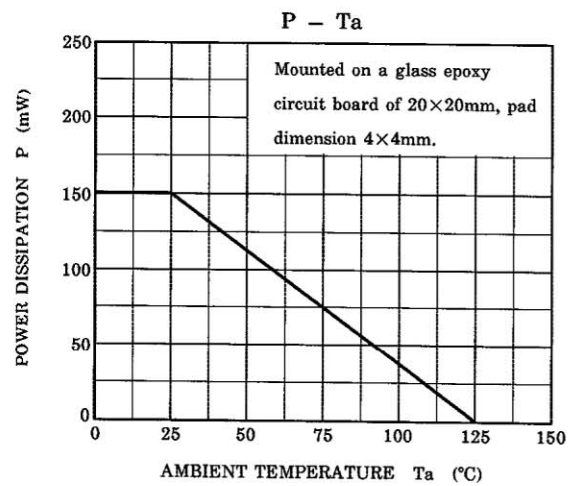
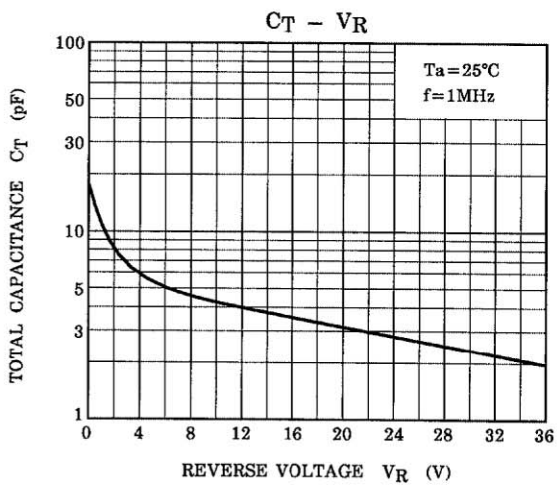
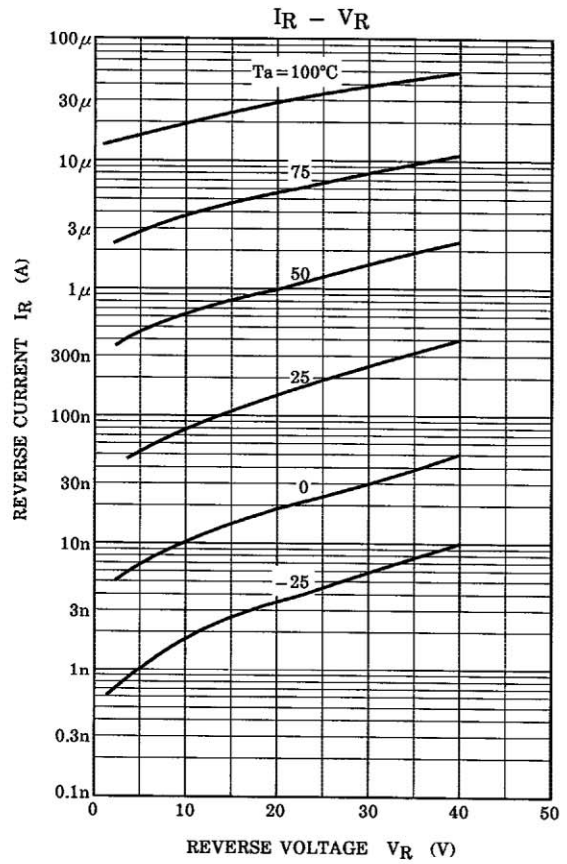
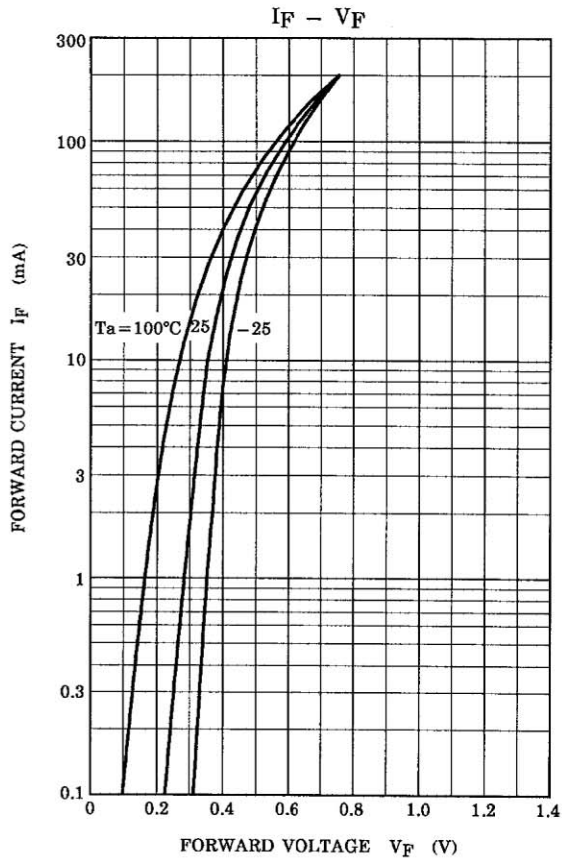
Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F(1)$	—	$I_F = 1mA$	—	0.28	—	V
	$V_F(2)$	—	$I_F = 10mA$	—	0.36	—	
	$V_F(3)$	—	$I_F = 50mA$	—	0.54	0.60	
Reverse current	$I_R$	—	$V_R = 10V$	—	—	5	$\mu A$
Total capacitance	$C_T$	—	$V_R = 0, f = 1MHz$	—	18	25	pF

## ● Equivalent Circuit (Top View)



## ● Marking





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