

# High-speed switching diode

## Features

1. Glass sealed envelope.
2. High reliability.
3. High speed.



## Applications

High speed switching

## Construction

Silicon epitaxial planar

## Absolute Maximum Ratings

$T_a=25^\circ\text{C}$

Parameter	Symbol	Limits	Unit	Parameter	Symbol	Value	Unit
Peak reverse voltage	$V_{RM}$	90	V	Surge current(1s)	$I_{surge}$	600	mA
DC reverse voltage	$V_R$	80	V	Power dissipation	P	300	mW
Peak forward current	$I_{FM}$	400	mA	Junction temperature	$T_j$	175	°C
Mean rectifying current	$I_o$	130	mA	Storage temperature	$T_{stg}$	-65~+175	°C

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only. Functional operation above the recommended operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

## Electrical Characteristics

$T_a=25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.92	1.2	V	$I_F=100\text{mA}$
Reverse current	$I_R$	-	0.02	0.5	$\mu\text{A}$	$V_R=80\text{V}$
Capacitance between terminals	$C_T$	-	1.55	2	pF	$V_R=0.5\text{V}, f=1\text{MHz}$
Reverse recovery time	$t_{rr}$	-	1.5	4	ns	$V_R=6\text{V}, I_F=10\text{mA}, R_L=50\Omega$

## Characteristics ( $T_a=25^\circ\text{C}$ unless specified otherwise)

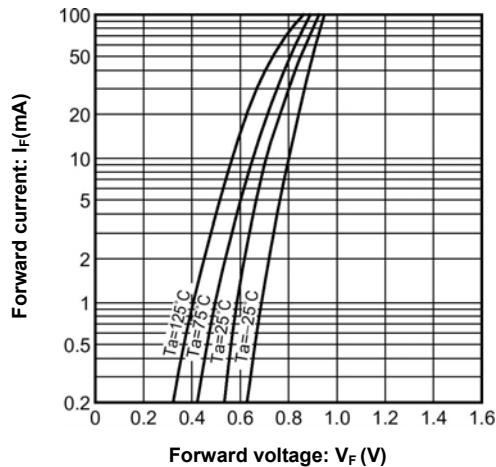


Figure 1. Forward characteristics

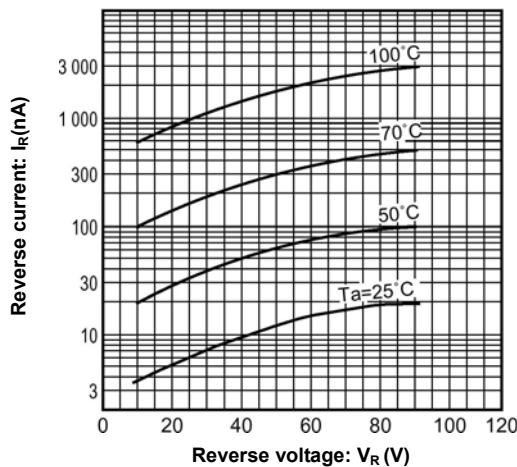


Figure 2. Reverse characteristics

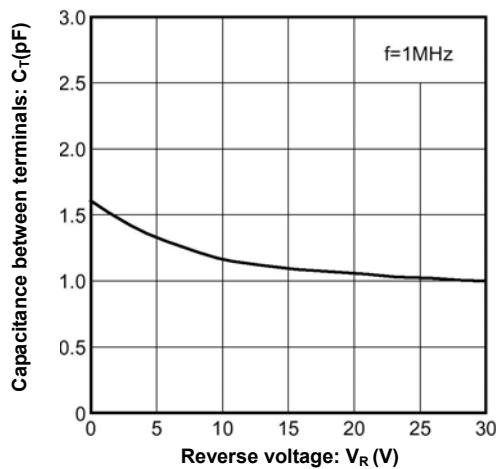


Figure 3. Capacitance between terminals characteristics

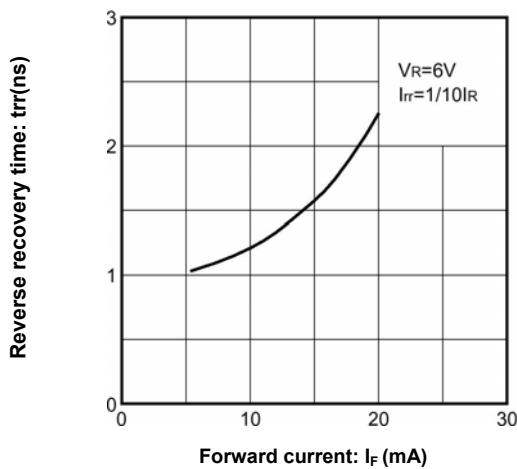


Figure 4. Reverse recovery time characteristics

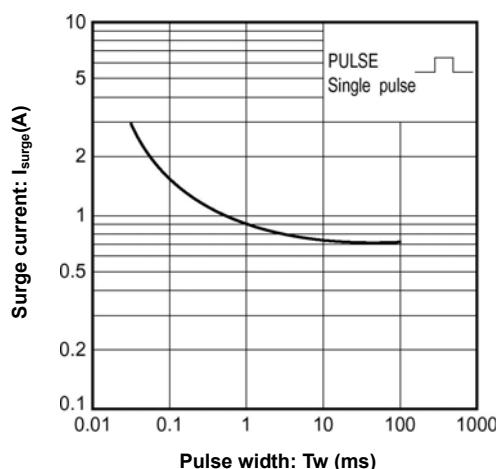


Figure 5. Surge current characteristics

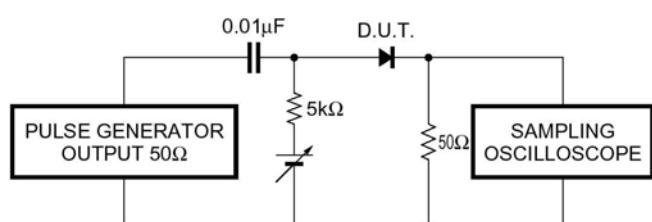
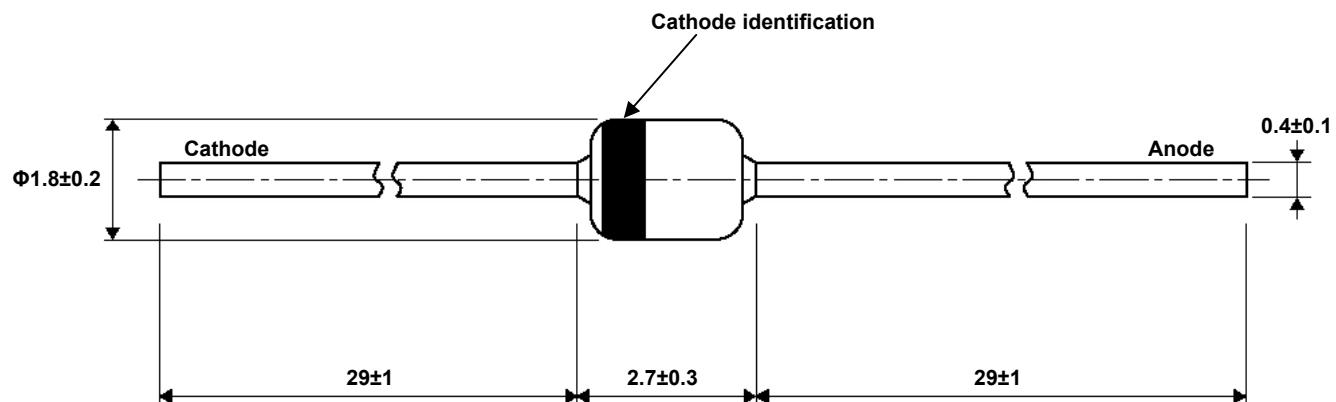


Figure 6. Reverse recovery time (trr) measurement circuit

**Dimensions in mm**

Standard Glass Case  
JEDEC DO-34