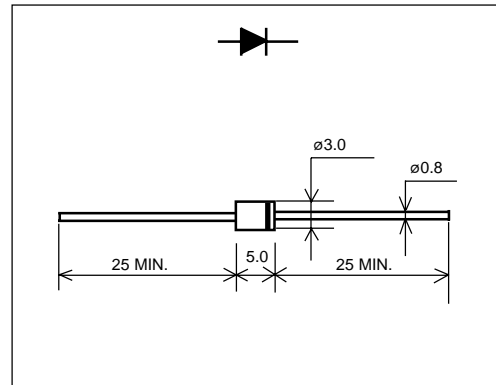


## LOW LOSS SUPER HIGH SPEED RECTIFIER

## Outline drawings, mm



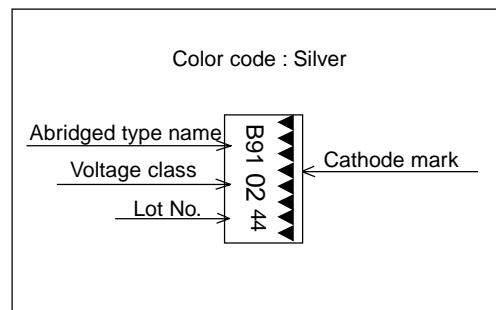
## Features

- Low  $V_F$
- Super high speed switching
- High reliability by planer design

## Applications

- High speed switching

## Marking



## Maximum ratings and characteristics

- Absolute maximum ratings

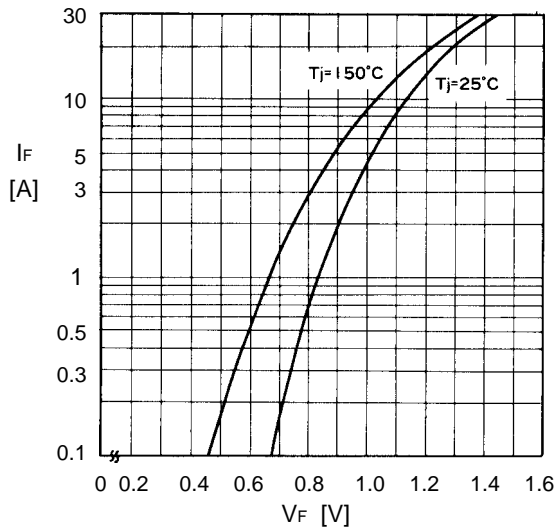
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Average forward current	$I_{F(AV)}$	duty=1/2, $T_a=50^\circ\text{C}$ Square wave	1.0	A
Surge current	$I_{FSM}$	Sine wave 10ms $T_j=150^\circ\text{C}$	20	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

- Electrical characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

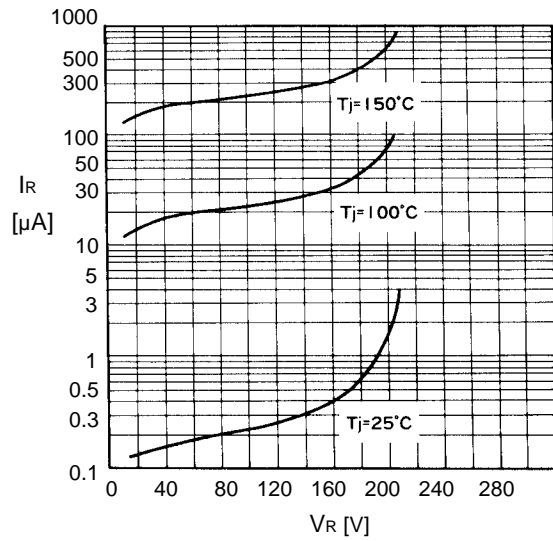
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=1.0\text{A}$	0.95	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	50	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}$ , $I_R=0.2\text{A}$ , $I_{rec}=0.05\text{A}$	35	ns

■ Characteristics

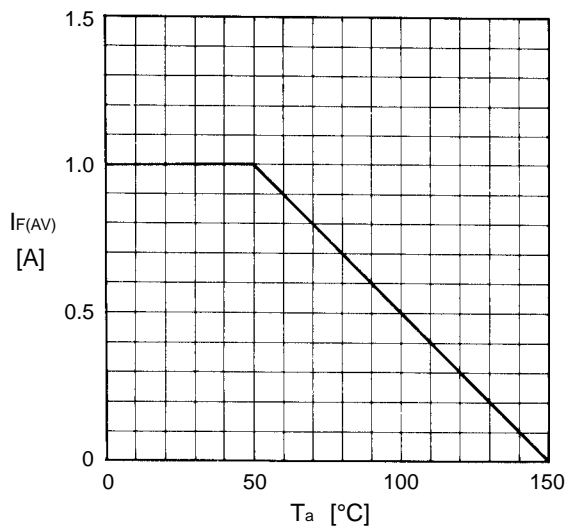
Forward characteristics



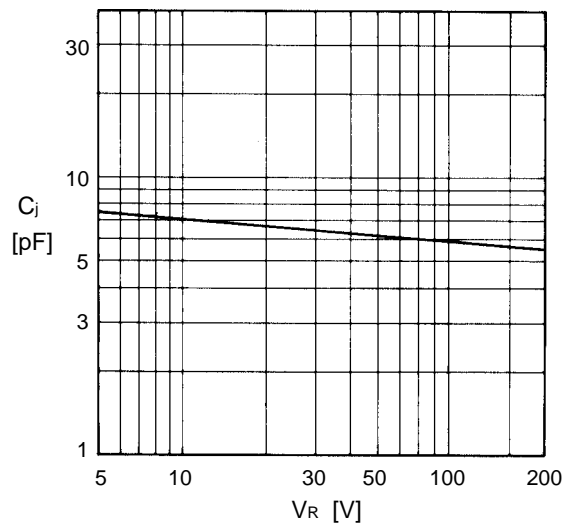
Reverse characteristics



Current derating ( $I_{F(AV)}-T_a$ )



Junction capacitance characteristics



Surge capability

