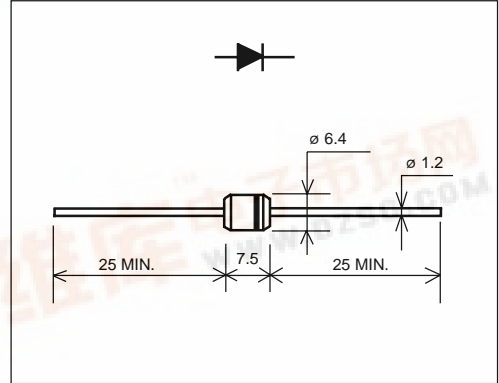


# ERC35 (2.5A)

( 200V / 2.5A )

## FAST RECOVERY DIODE

### Outline drawings, mm



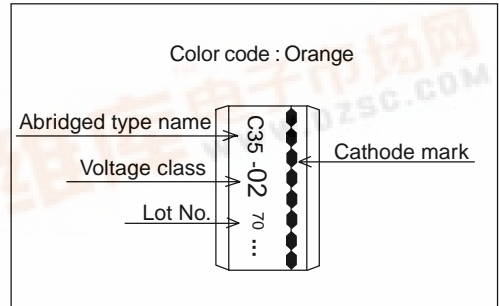
### Features

- Soft recovery, low noise
- High reliability

### Applications

- High speed switching

### Marking



### Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
			-02	
Repetitive peak reverse voltage	$V_{RRM}$		200	V
Average forward current	$I_{F(AV)}$	Square wave, duty=1/2, $T_a=25^\circ\text{C}$	2.5*	A
Surge current	$I_{FSM}$	Sine wave 10ms	50	A
Operating junction temperature	$T_j$		-40 to +150	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^\circ\text{C}$

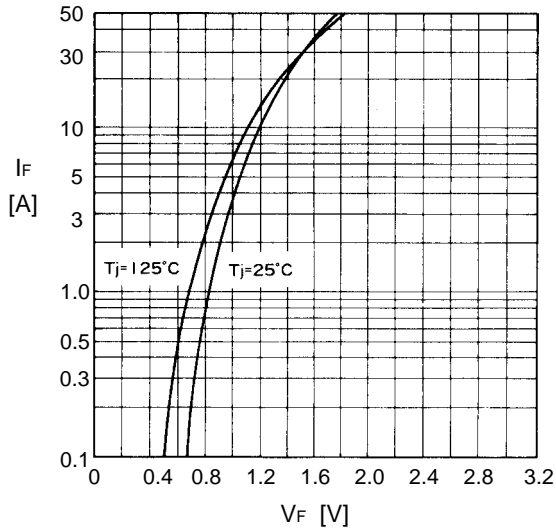
\* With cooling Cu fin bothlead(1t x 20 x 20)

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

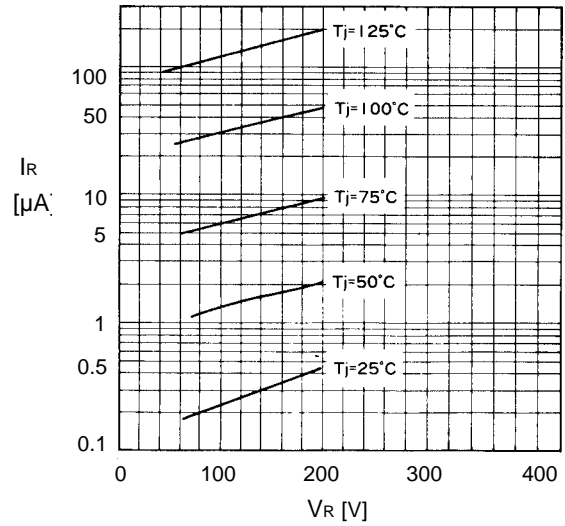
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=2.5\text{A}$	1.2	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	20	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=0.1\text{A}, I_R=0.1\text{A}$	100	ns

■ Characteristics

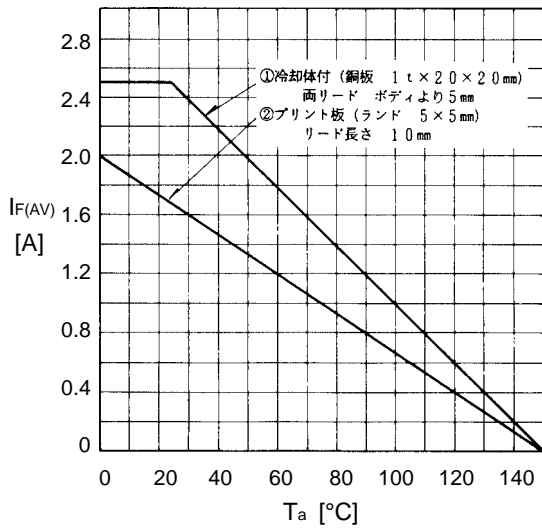
Forward characteristics



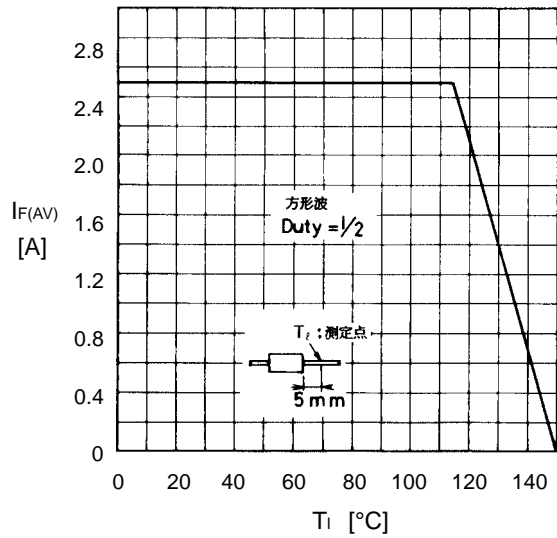
Reverse characteristics



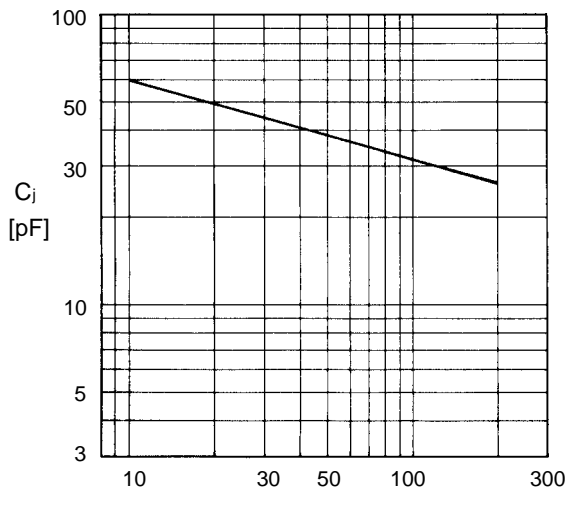
Current derating ( $I_{F(AV)}-T_a$ )



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



Junction capacitance characteristics



Surge capability

