

SPECIFICATION

Device Name : High Voltage Silicon Diode

Type Name : ESJA59-10A

Spec. No. : - - -

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Fuji Electric Co.,Ltd.
Matsumoto Factory

DRAWN /	DATE	NAME	APPROVED	DRAWING NO.	Fuji Electric Co.,Ltd.	
CHECKED						

1. SCOPE

This specification provide the ratings and the requirements for high voltage silicon diode ESJA59-10A made by FUJI ELECTRIC CO., LTD.

2. OUT VIEW

Shape and dimensions are described in Fig. 3.

3. IDENTIFICATION

The diode shall be marked with Cathode Mark and Lot No..

4. RATINGS AND CHARACTERISTICS

4.1 ABSOLUTE MAX. RATINGS. (Ta=25 °C unless otherwise noted.)

Items	Conditions	Symbols	Ratings	Units
Repetitive peak reverse voltage.		V _{RRM}	10	kVpeak
Non-Repetitive peak forward current.	50Hz Sine-half wave peak value	I _{FSM}	0.5	Apeak
Average forward current.	50Hz Sine Wave	I _{AV}	5	mA
Allowable junction temperature.		T _j	120	°C
Storage temperature range.		T _{stg}	-40~120	°C
Allowable operating case temperature.		T _c	100	°C

4.2 ELECTRICAL CHARACTERISTICS (Ta=25 °C unless otherwise noted.)

Items	Conditions	Symbols	Ratings	Units
Maximum forward voltage drop	I _F =10mA	V _F	36	V
Maximum reverse current	V _R =10kV	I _{R1}	2	μA
Maximum reverse current	V _R =10kV, 100°C	I _{R2}	5	μA
Maximum reverse recovery time	I _F =2mA, I _R =4mA	t _{rr}	0.08	μS
Maximum junction capacitance	f=1MHz, V _R =0V	C _j	1	pF

4.3 MECHANICAL CHARACTERISTICS

Weight : Ca. 0.3 gr.

Vibration proof : 5 G

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DWG NO.

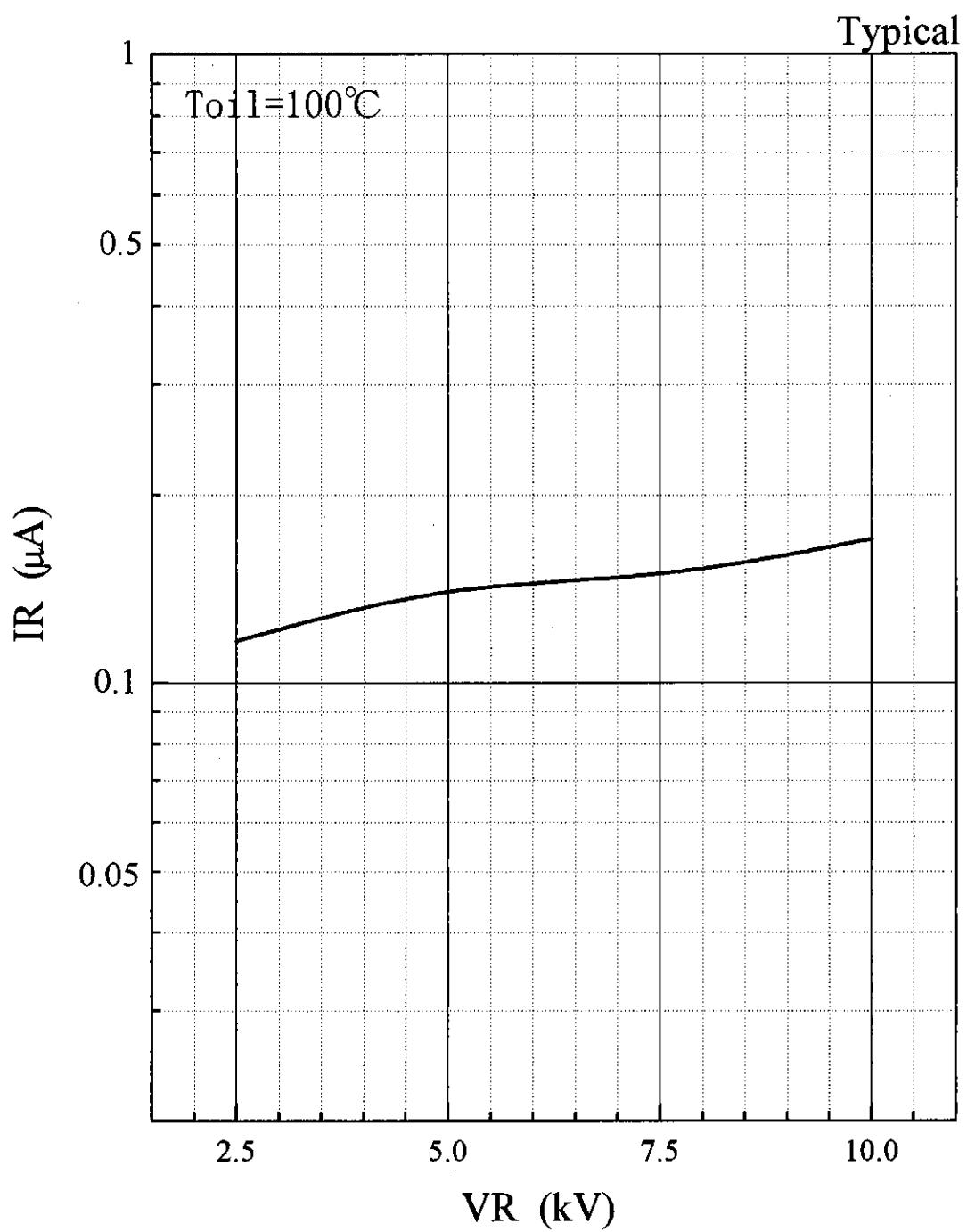


Fig.2 Reverse characteristic[VR-IR]

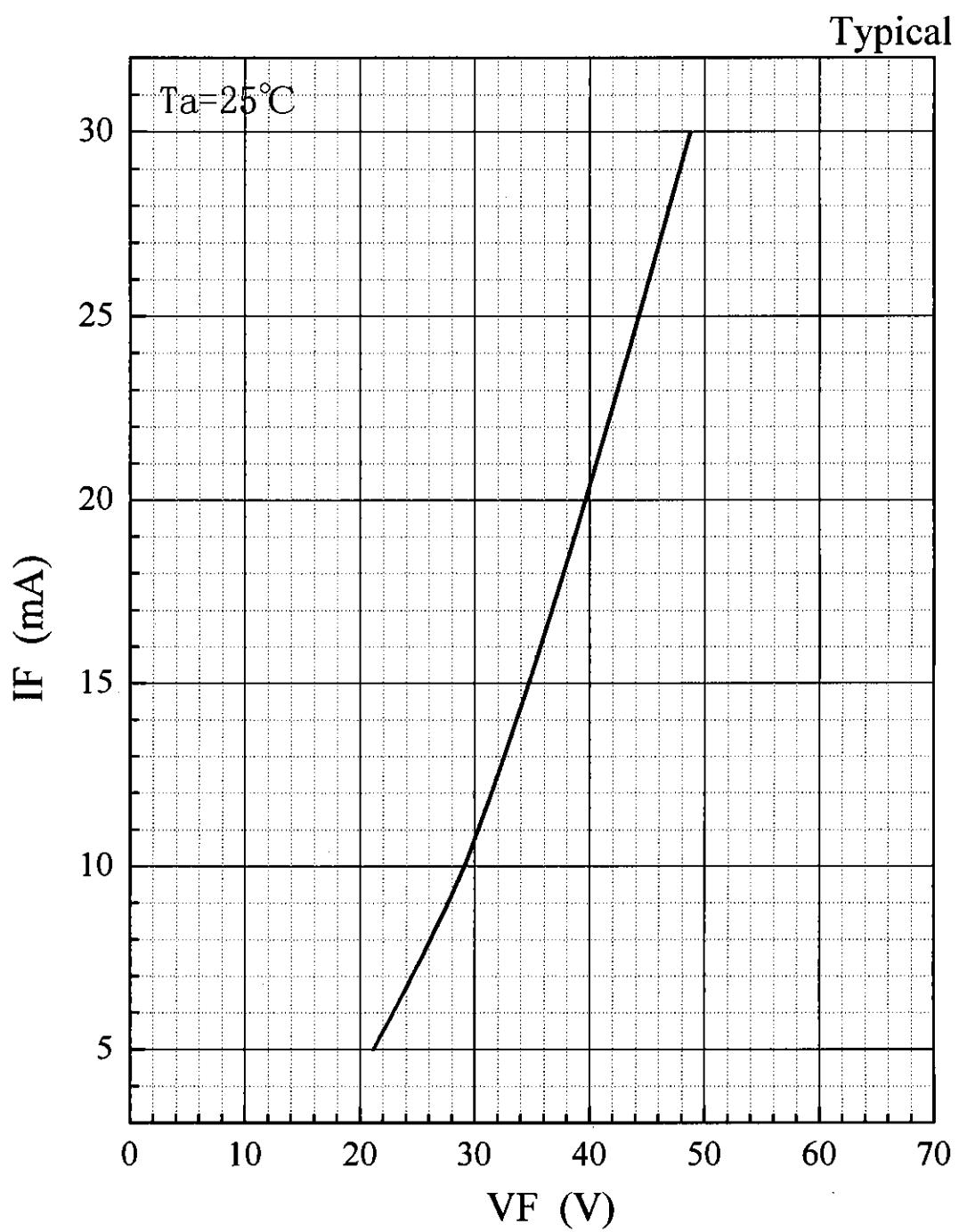


Fig.1 Forward characteristic[VF-IF]

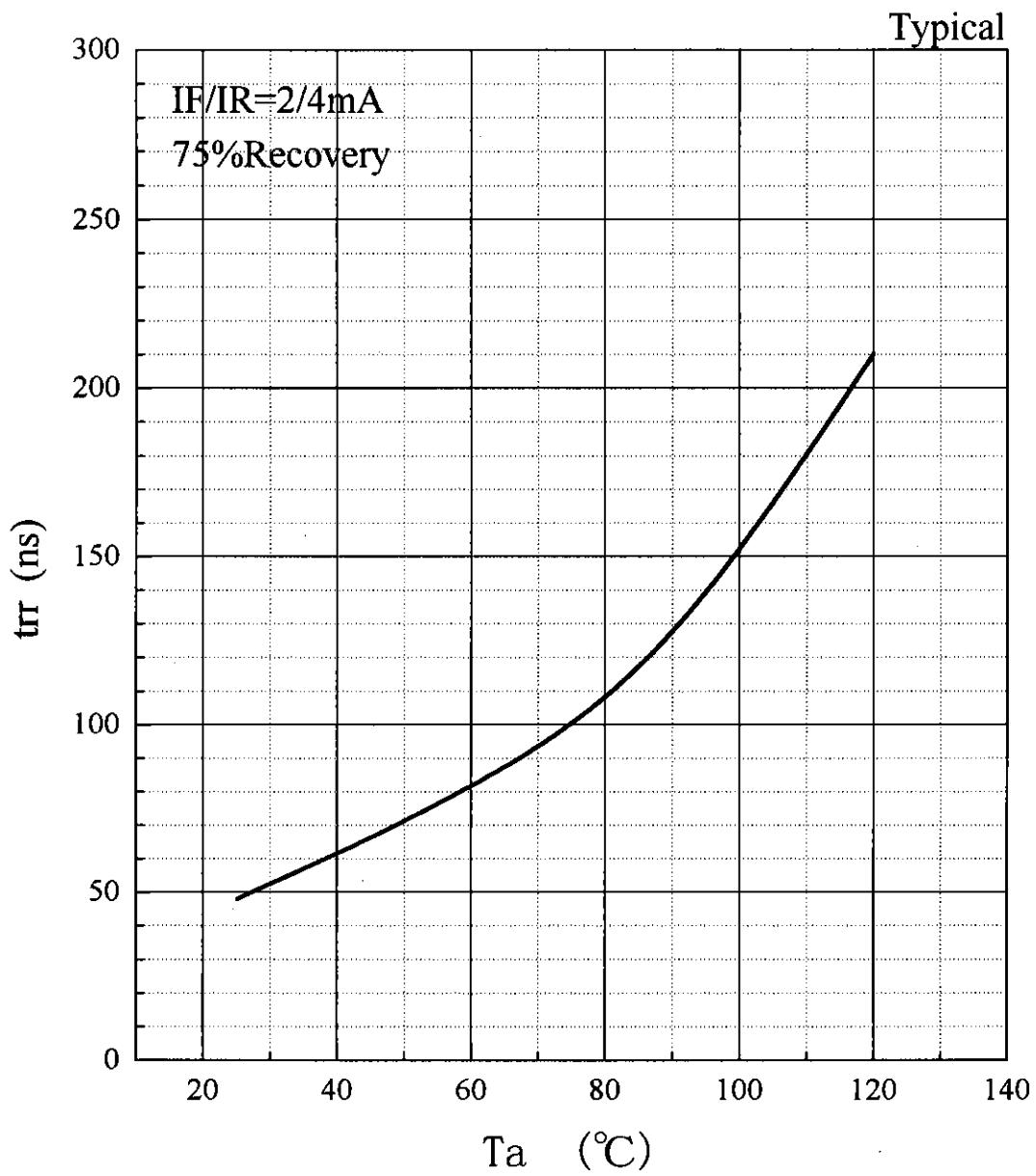


Fig.4 Reverse recovery time characteristic[Ta-trr]

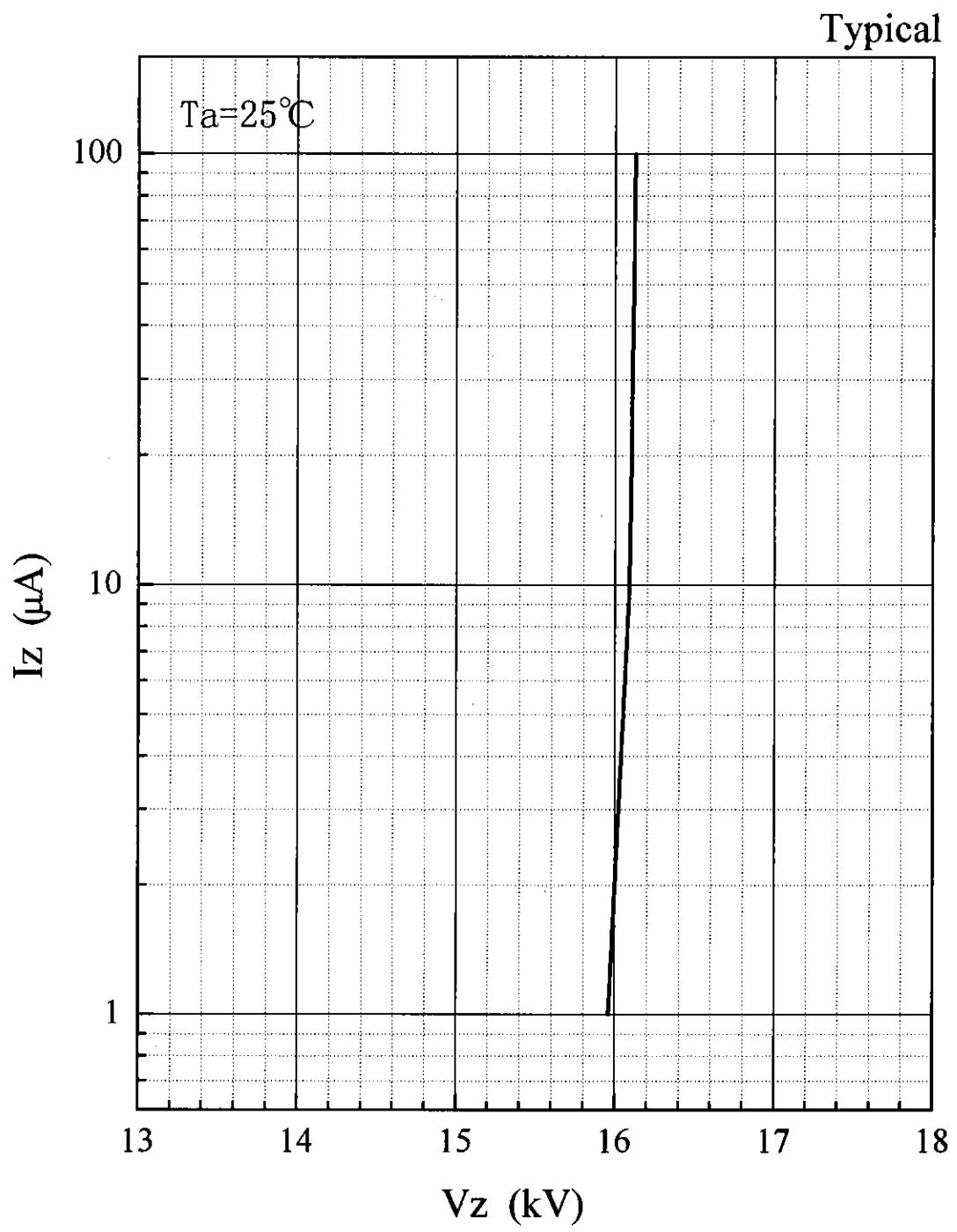
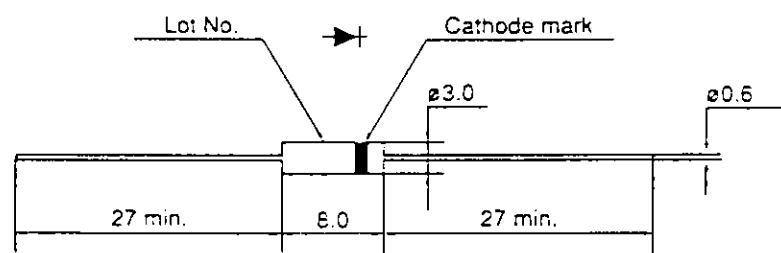


Fig. 3 Avalanche characteristic [V_z - I_z]

Dimensions Unit : mm

ESJA59-□□A



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